

Pantheon Report

Generated at 2018-07-25 11:48:31 (UTC).

Data path: Mexico Ethernet (*remote*) → AWS California 2 Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

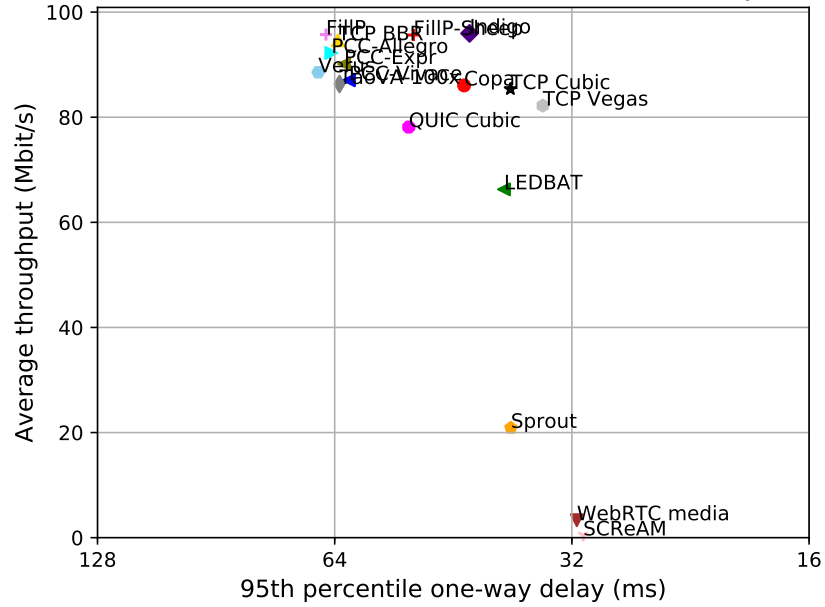
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

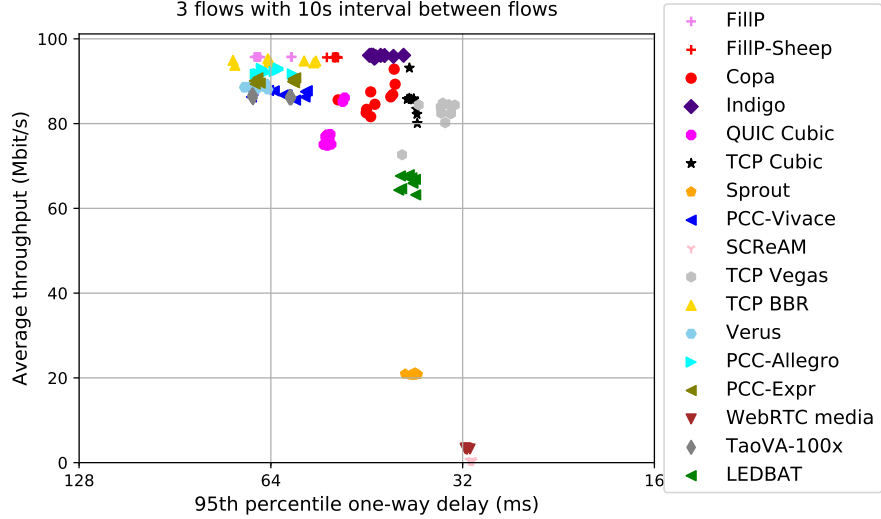
Git summary:

```
branch: master @ 640164b5b17c7c6561fff57729b3b5935d8596ce
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf90c077e64d
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Mexico to AWS California 2, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from Mexico to AWS California 2, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	58.59	39.10	30.32	59.16	66.41	68.93	1.83	3.22	3.06
Copa	10	51.32	38.85	26.76	42.16	45.33	45.95	0.19	0.30	0.81
TCP Cubic	10	51.75	36.57	27.98	37.55	38.59	38.58	0.17	0.29	0.78
FillP	10	59.48	37.70	33.86	60.28	64.73	60.30	1.68	3.67	4.21
FillP-Sheep	10	59.43	42.19	24.73	50.95	51.78	63.19	0.74	0.66	1.02
Indigo	10	58.70	40.87	30.82	44.05	43.29	45.33	0.21	0.38	0.77
LEDBAT	10	39.36	30.08	20.87	38.59	40.17	38.60	0.17	0.37	1.04
PCC-Allegro	10	57.97	37.75	27.90	61.06	63.30	61.64	3.73	3.48	1.51
PCC-Expr	10	54.59	38.12	31.01	61.79	58.89	59.50	0.64	0.92	1.43
QUIC Cubic	10	43.99	35.50	32.04	42.26	52.75	60.60	0.20	0.38	0.95
SCReAM	10	0.21	0.21	0.22	30.96	30.91	30.94	0.21	0.39	0.71
Sprout	10	10.58	10.48	10.18	37.89	38.51	38.90	0.26	0.34	0.64
TaoVA-100x	10	48.68	40.19	32.91	62.94	59.63	59.86	0.74	1.35	3.10
TCP Vegas	10	46.40	35.68	36.43	36.73	33.45	36.01	0.13	0.32	0.72
Verus	10	52.99	36.67	33.84	63.29	70.38	63.99	0.33	0.52	1.20
PCC-Vivace	10	55.36	35.62	24.29	54.62	62.28	57.66	2.37	1.98	1.26
WebRTC media	10	1.83	1.07	0.43	31.47	31.54	31.79	0.10	0.27	0.63

Run 1: Statistics of TCP BBR

Start at: 2018-07-25 07:41:09

End at: 2018-07-25 07:41:39

Local clock offset: 3.245 ms

Remote clock offset: 3.408 ms

Below is generated by plot.py at 2018-07-25 11:26:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.31 Mbit/s

95th percentile per-packet one-way delay: 64.706 ms

Loss rate: 2.33%

-- Flow 1:

Average throughput: 58.04 Mbit/s

95th percentile per-packet one-way delay: 64.475 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 39.78 Mbit/s

95th percentile per-packet one-way delay: 63.230 ms

Loss rate: 3.19%

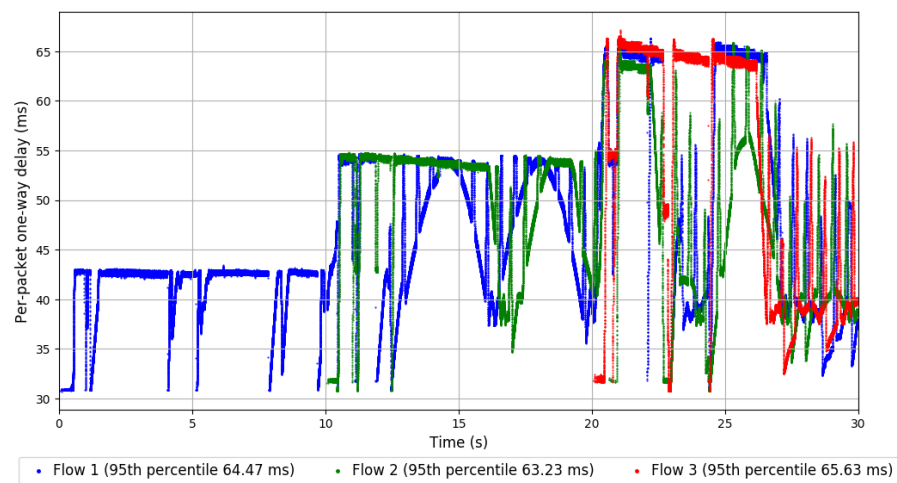
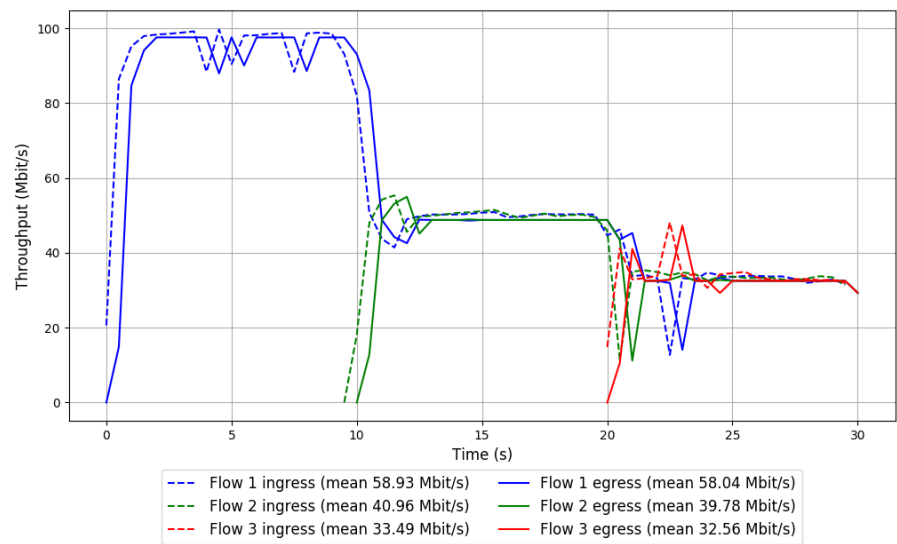
-- Flow 3:

Average throughput: 32.56 Mbit/s

95th percentile per-packet one-way delay: 65.632 ms

Loss rate: 3.44%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-25 08:04:05

End at: 2018-07-25 08:04:35

Local clock offset: 3.268 ms

Remote clock offset: 5.961 ms

Below is generated by plot.py at 2018-07-25 11:26:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.76 Mbit/s

95th percentile per-packet one-way delay: 72.899 ms

Loss rate: 2.28%

-- Flow 1:

Average throughput: 62.01 Mbit/s

95th percentile per-packet one-way delay: 54.296 ms

Loss rate: 1.67%

-- Flow 2:

Average throughput: 35.67 Mbit/s

95th percentile per-packet one-way delay: 72.295 ms

Loss rate: 3.40%

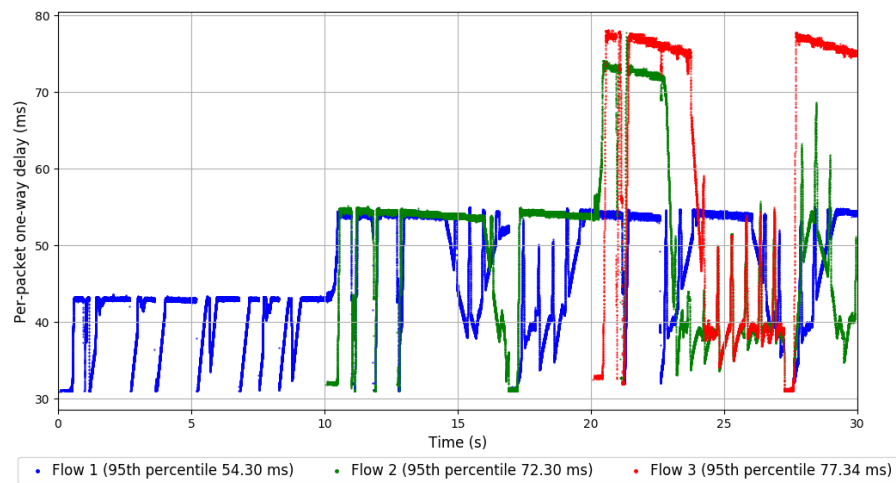
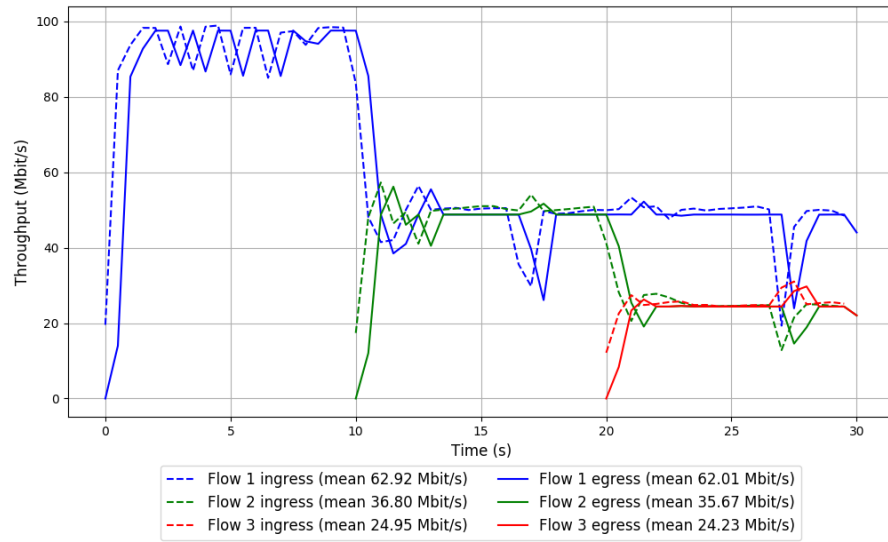
-- Flow 3:

Average throughput: 24.23 Mbit/s

95th percentile per-packet one-way delay: 77.344 ms

Loss rate: 3.55%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-25 08:27:00

End at: 2018-07-25 08:27:30

Local clock offset: 2.73 ms

Remote clock offset: 4.053 ms

Below is generated by plot.py at 2018-07-25 11:26:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.78 Mbit/s

95th percentile per-packet one-way delay: 56.746 ms

Loss rate: 2.88%

-- Flow 1:

Average throughput: 55.15 Mbit/s

95th percentile per-packet one-way delay: 53.949 ms

Loss rate: 2.34%

-- Flow 2:

Average throughput: 36.11 Mbit/s

95th percentile per-packet one-way delay: 71.979 ms

Loss rate: 4.09%

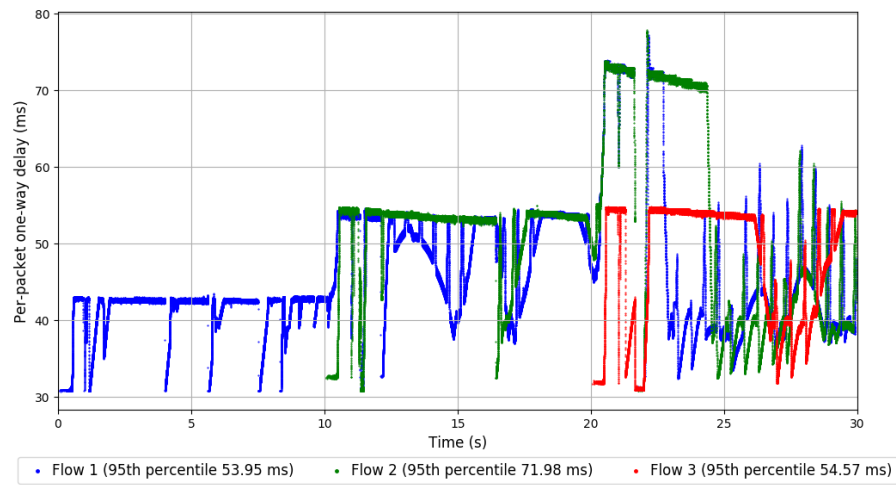
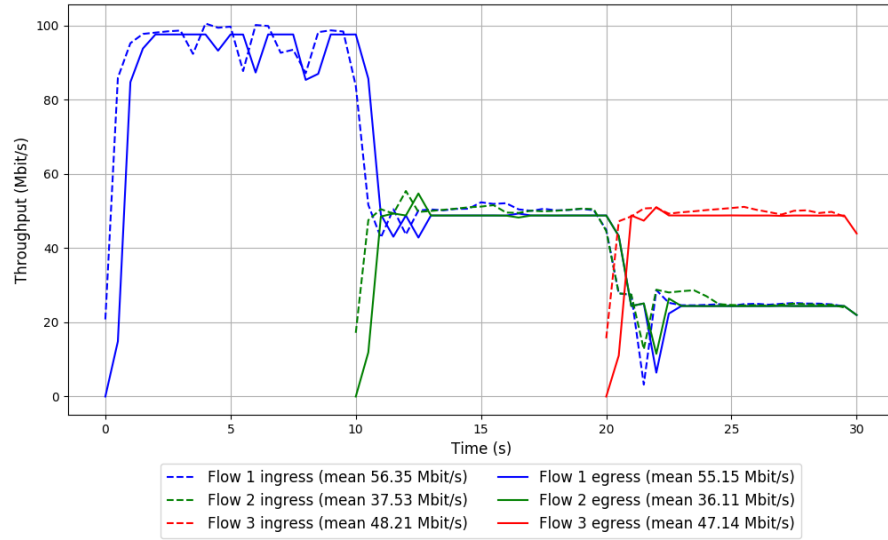
-- Flow 3:

Average throughput: 47.14 Mbit/s

95th percentile per-packet one-way delay: 54.571 ms

Loss rate: 2.88%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-25 08:50:08

End at: 2018-07-25 08:50:38

Local clock offset: -0.305 ms

Remote clock offset: 2.836 ms

Below is generated by plot.py at 2018-07-25 11:26:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.92 Mbit/s

95th percentile per-packet one-way delay: 73.371 ms

Loss rate: 2.56%

-- Flow 1:

Average throughput: 62.58 Mbit/s

95th percentile per-packet one-way delay: 53.942 ms

Loss rate: 1.98%

-- Flow 2:

Average throughput: 36.10 Mbit/s

95th percentile per-packet one-way delay: 72.999 ms

Loss rate: 3.40%

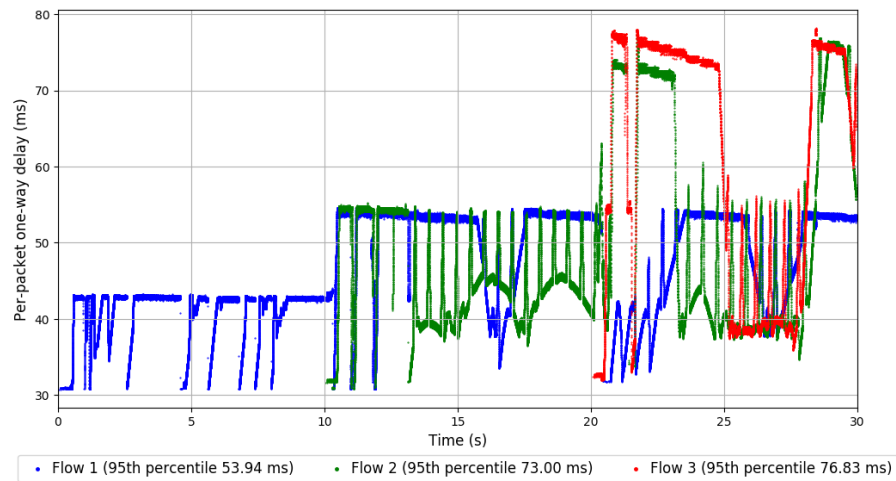
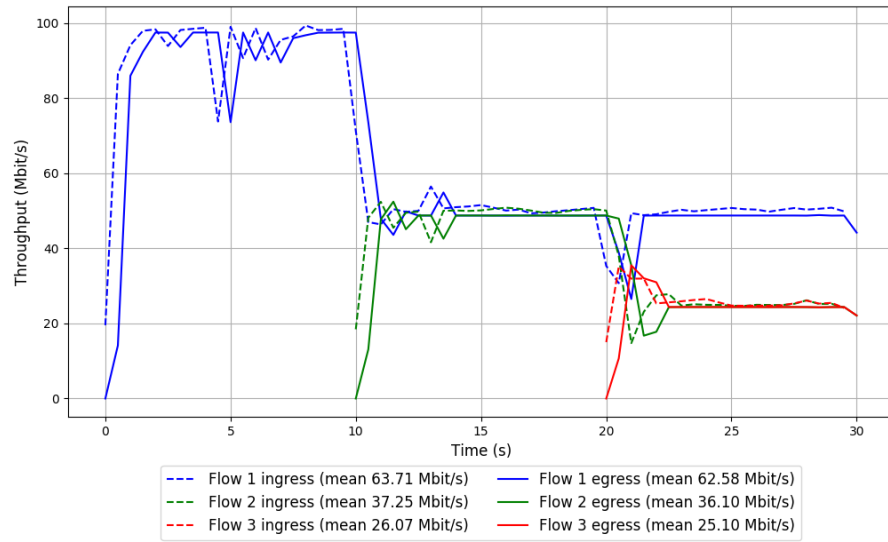
-- Flow 3:

Average throughput: 25.10 Mbit/s

95th percentile per-packet one-way delay: 76.832 ms

Loss rate: 4.36%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-25 09:13:04

End at: 2018-07-25 09:13:34

Local clock offset: 2.105 ms

Remote clock offset: 2.784 ms

Below is generated by plot.py at 2018-07-25 11:26:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.76 Mbit/s

95th percentile per-packet one-way delay: 54.412 ms

Loss rate: 2.14%

-- Flow 1:

Average throughput: 63.16 Mbit/s

95th percentile per-packet one-way delay: 54.119 ms

Loss rate: 1.77%

-- Flow 2:

Average throughput: 35.69 Mbit/s

95th percentile per-packet one-way delay: 73.860 ms

Loss rate: 2.92%

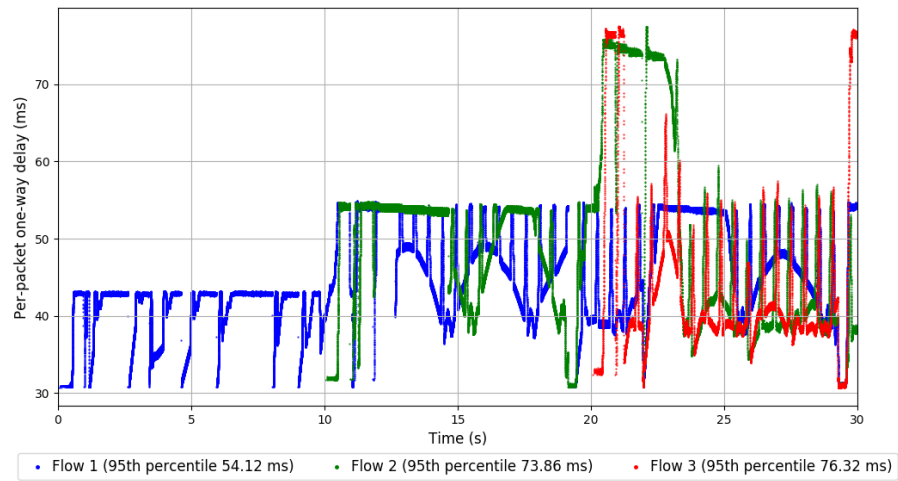
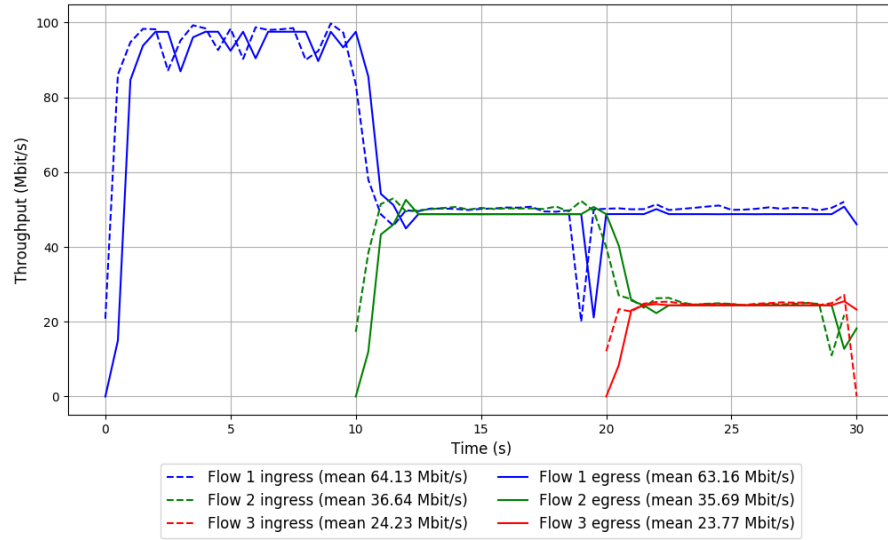
-- Flow 3:

Average throughput: 23.77 Mbit/s

95th percentile per-packet one-way delay: 76.321 ms

Loss rate: 2.71%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-25 09:36:01

End at: 2018-07-25 09:36:31

Local clock offset: 1.807 ms

Remote clock offset: 2.551 ms

Below is generated by plot.py at 2018-07-25 11:26:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 64.428 ms

Loss rate: 2.29%

-- Flow 1:

Average throughput: 57.74 Mbit/s

95th percentile per-packet one-way delay: 64.427 ms

Loss rate: 1.94%

-- Flow 2:

Average throughput: 39.92 Mbit/s

95th percentile per-packet one-way delay: 64.323 ms

Loss rate: 2.91%

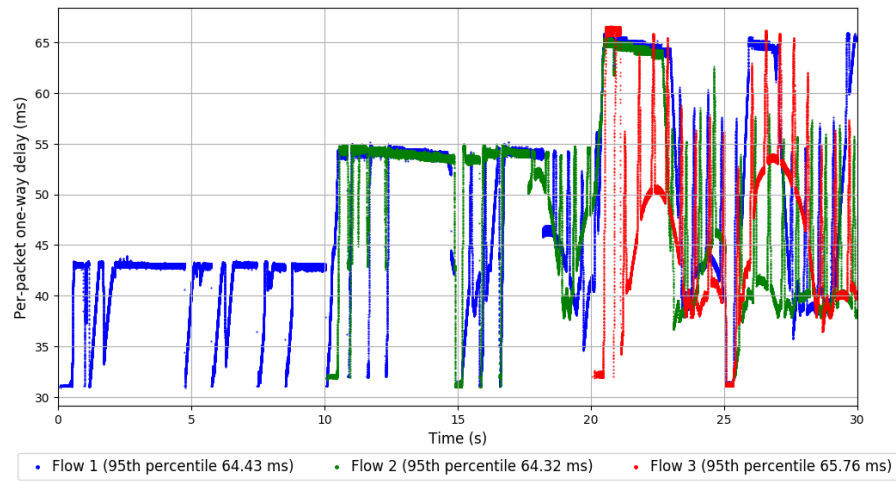
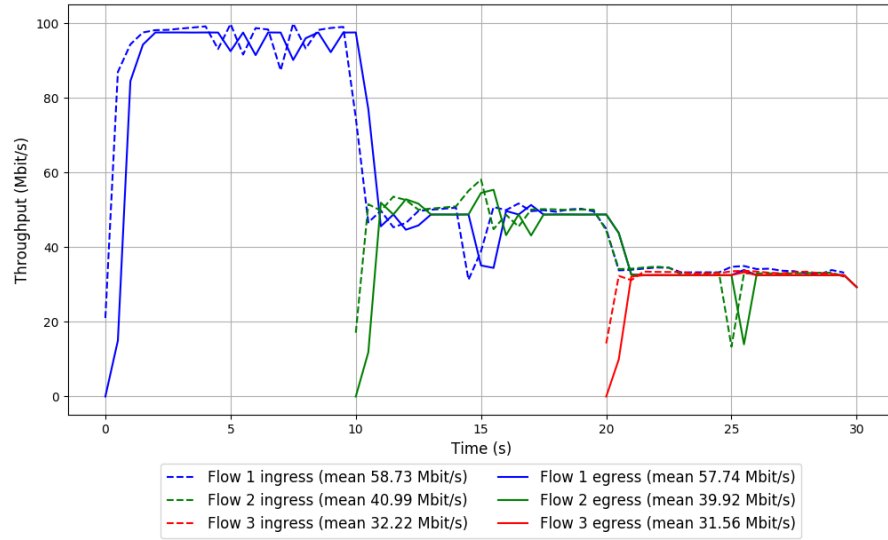
-- Flow 3:

Average throughput: 31.56 Mbit/s

95th percentile per-packet one-way delay: 65.756 ms

Loss rate: 2.70%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-25 09:58:54

End at: 2018-07-25 09:59:24

Local clock offset: -0.505 ms

Remote clock offset: 2.355 ms

Below is generated by plot.py at 2018-07-25 11:26:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.69 Mbit/s

95th percentile per-packet one-way delay: 64.240 ms

Loss rate: 2.19%

-- Flow 1:

Average throughput: 57.85 Mbit/s

95th percentile per-packet one-way delay: 64.253 ms

Loss rate: 1.79%

-- Flow 2:

Average throughput: 39.67 Mbit/s

95th percentile per-packet one-way delay: 63.749 ms

Loss rate: 2.89%

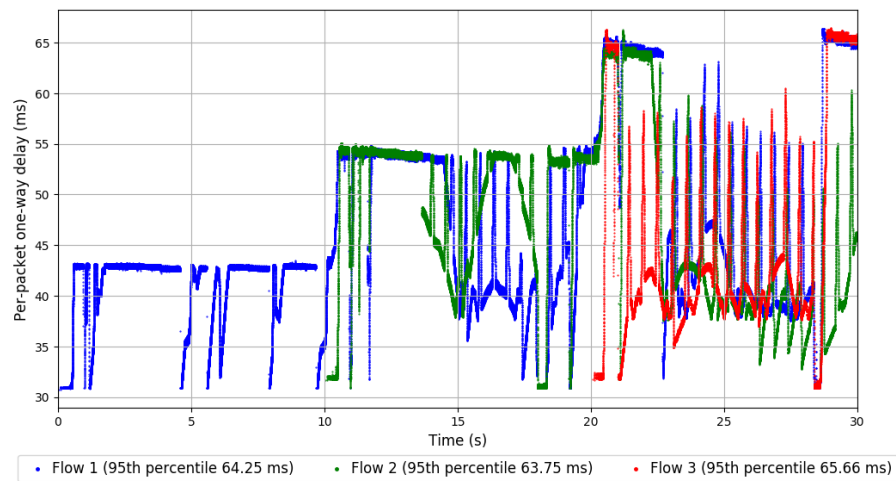
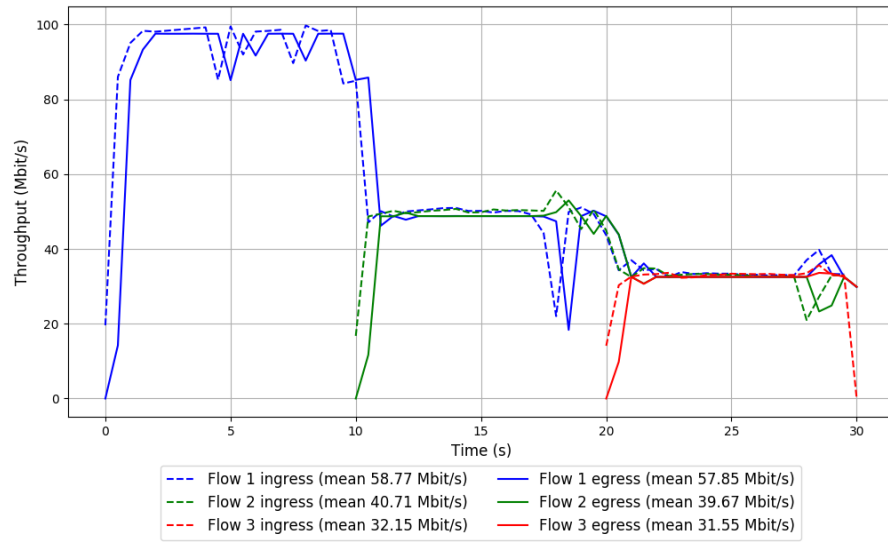
-- Flow 3:

Average throughput: 31.55 Mbit/s

95th percentile per-packet one-way delay: 65.656 ms

Loss rate: 2.65%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-25 10:21:45

End at: 2018-07-25 10:22:15

Local clock offset: -0.214 ms

Remote clock offset: 2.525 ms

Below is generated by plot.py at 2018-07-25 11:26:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.35 Mbit/s

95th percentile per-packet one-way delay: 54.791 ms

Loss rate: 2.36%

-- Flow 1:

Average throughput: 54.34 Mbit/s

95th percentile per-packet one-way delay: 54.432 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 48.28 Mbit/s

95th percentile per-packet one-way delay: 54.459 ms

Loss rate: 3.33%

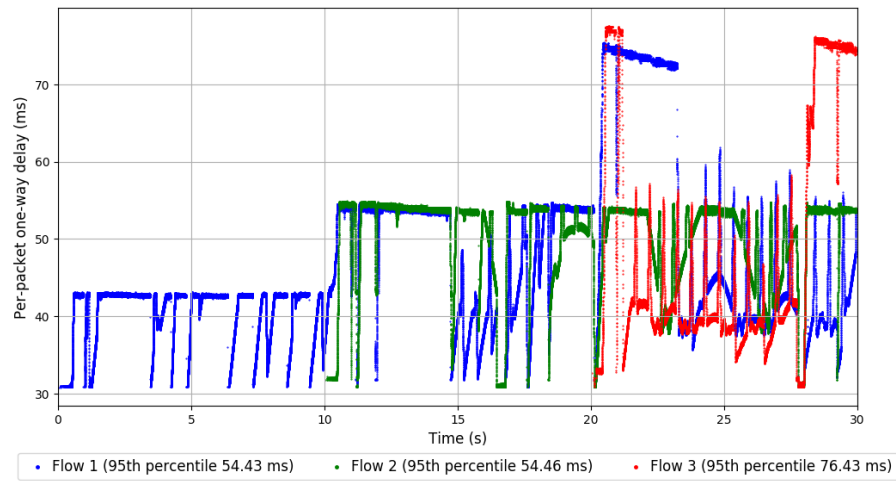
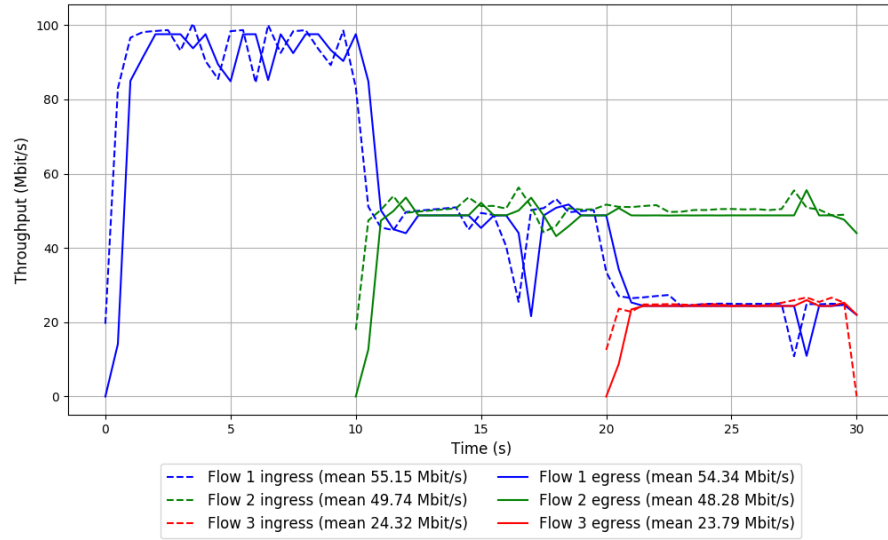
-- Flow 3:

Average throughput: 23.79 Mbit/s

95th percentile per-packet one-way delay: 76.428 ms

Loss rate: 3.01%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-25 10:44:34

End at: 2018-07-25 10:45:04

Local clock offset: 0.021 ms

Remote clock offset: 1.226 ms

Below is generated by plot.py at 2018-07-25 11:27:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.64 Mbit/s

95th percentile per-packet one-way delay: 64.202 ms

Loss rate: 2.10%

-- Flow 1:

Average throughput: 57.55 Mbit/s

95th percentile per-packet one-way delay: 63.511 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 39.92 Mbit/s

95th percentile per-packet one-way delay: 64.121 ms

Loss rate: 2.90%

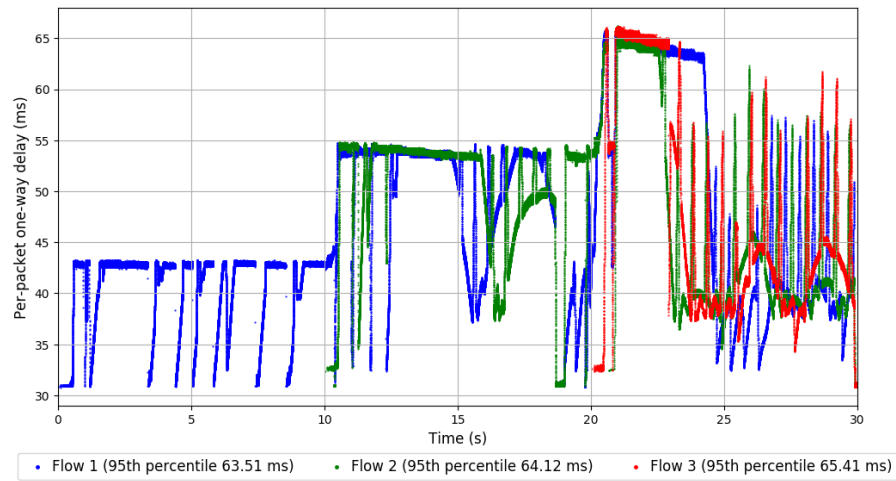
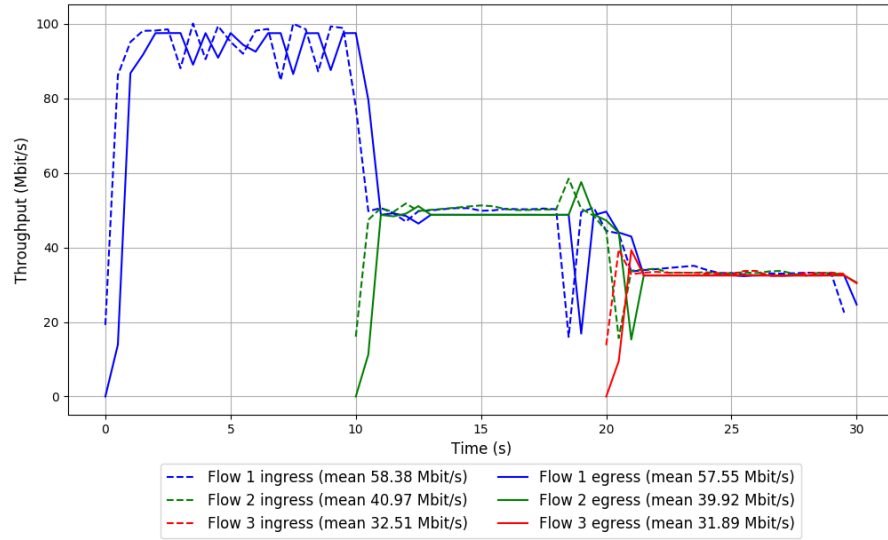
-- Flow 3:

Average throughput: 31.89 Mbit/s

95th percentile per-packet one-way delay: 65.408 ms

Loss rate: 2.56%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-25 11:07:25

End at: 2018-07-25 11:07:55

Local clock offset: 1.532 ms

Remote clock offset: 1.887 ms

Below is generated by plot.py at 2018-07-25 11:27:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 64.300 ms

Loss rate: 2.26%

-- Flow 1:

Average throughput: 57.45 Mbit/s

95th percentile per-packet one-way delay: 64.159 ms

Loss rate: 1.75%

-- Flow 2:

Average throughput: 39.81 Mbit/s

95th percentile per-packet one-way delay: 63.131 ms

Loss rate: 3.14%

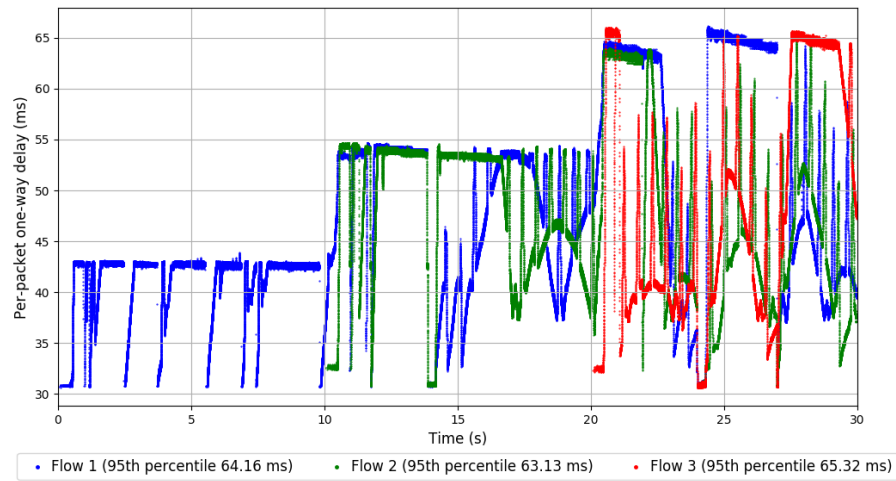
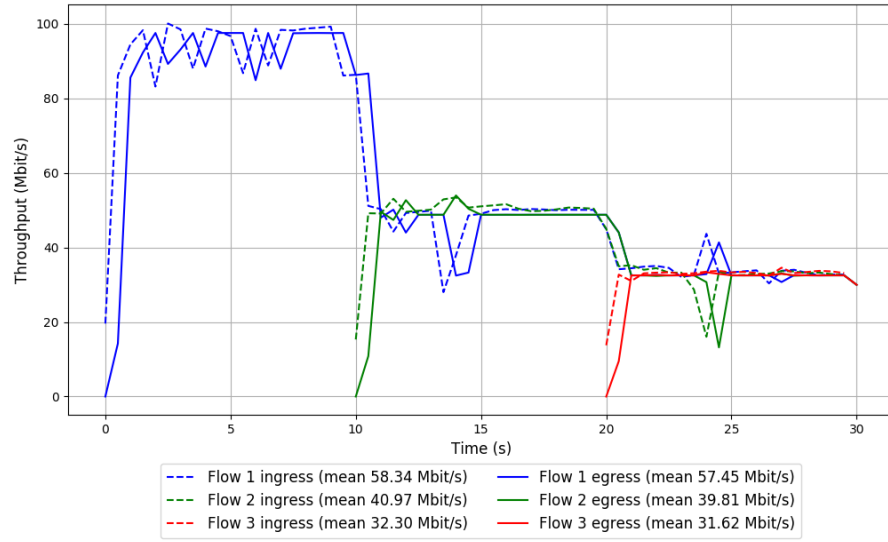
-- Flow 3:

Average throughput: 31.62 Mbit/s

95th percentile per-packet one-way delay: 65.316 ms

Loss rate: 2.76%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-25 07:45:13

End at: 2018-07-25 07:45:43

Local clock offset: 3.373 ms

Remote clock offset: 3.748 ms

Below is generated by plot.py at 2018-07-25 11:28:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.56 Mbit/s

95th percentile per-packet one-way delay: 45.342 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 47.61 Mbit/s

95th percentile per-packet one-way delay: 42.323 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 37.30 Mbit/s

95th percentile per-packet one-way delay: 47.794 ms

Loss rate: 0.39%

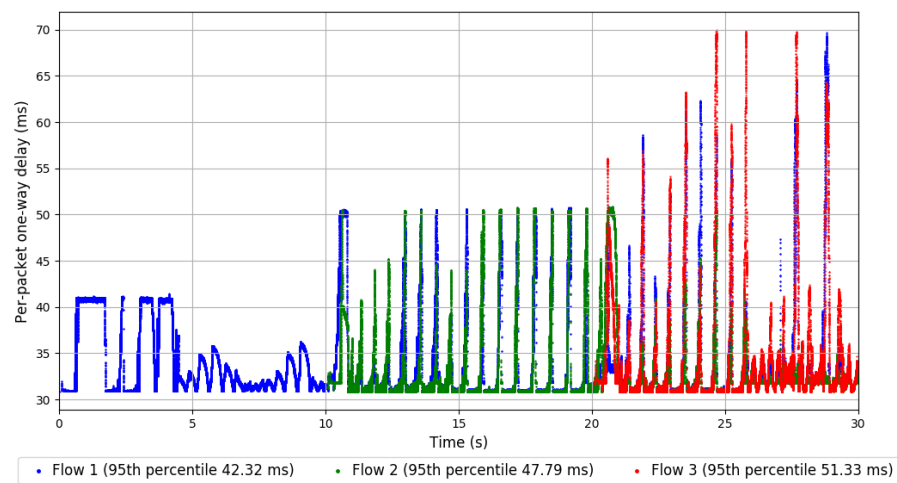
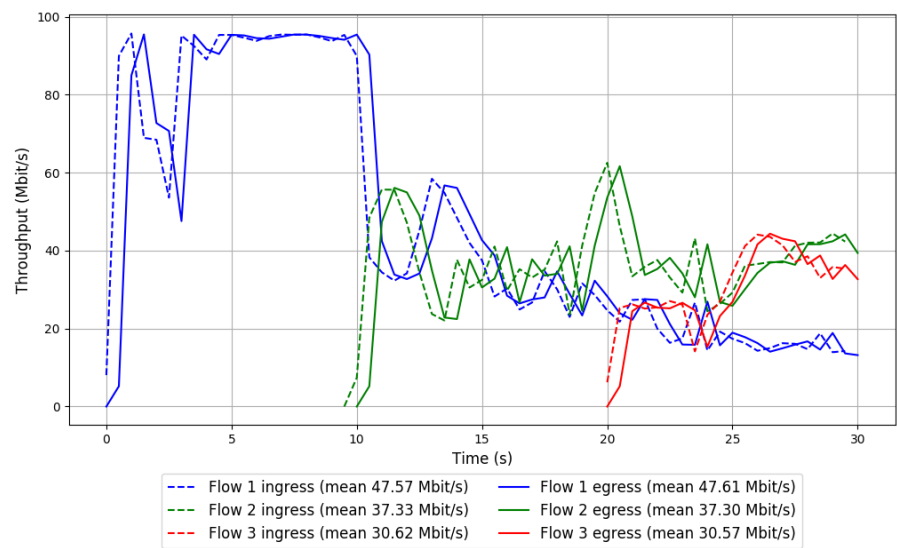
-- Flow 3:

Average throughput: 30.57 Mbit/s

95th percentile per-packet one-way delay: 51.326 ms

Loss rate: 0.80%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-25 08:08:08

End at: 2018-07-25 08:08:38

Local clock offset: 3.037 ms

Remote clock offset: 5.383 ms

Below is generated by plot.py at 2018-07-25 11:28:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.32 Mbit/s

95th percentile per-packet one-way delay: 41.494 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 48.44 Mbit/s

95th percentile per-packet one-way delay: 40.839 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 41.16 Mbit/s

95th percentile per-packet one-way delay: 47.737 ms

Loss rate: 0.27%

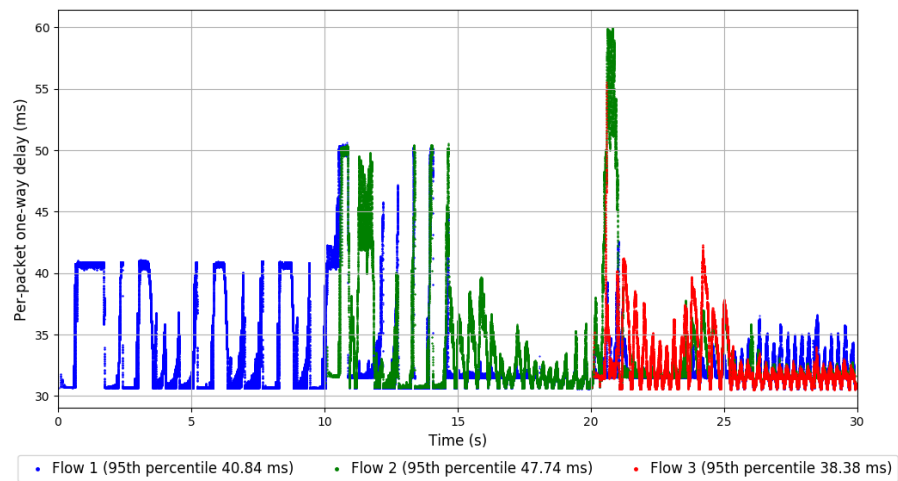
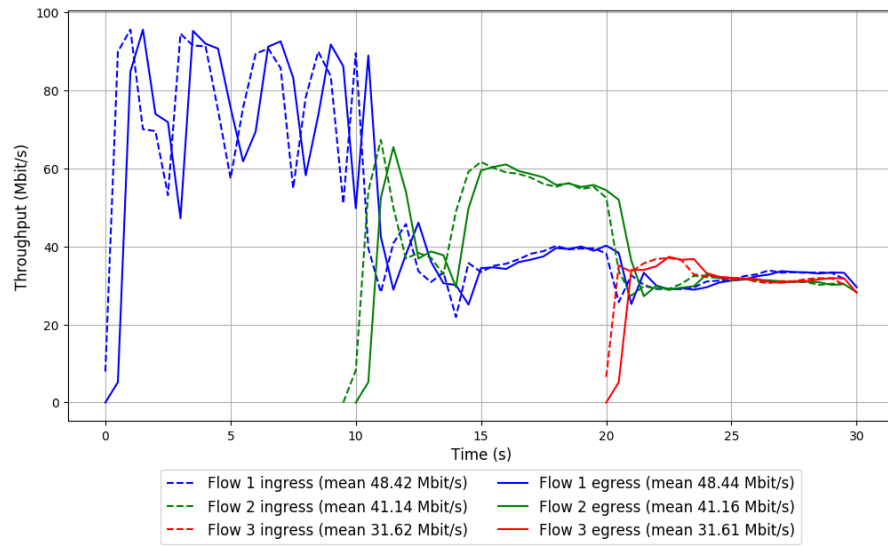
-- Flow 3:

Average throughput: 31.61 Mbit/s

95th percentile per-packet one-way delay: 38.378 ms

Loss rate: 0.66%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-25 08:31:11

End at: 2018-07-25 08:31:41

Local clock offset: 2.751 ms

Remote clock offset: 4.273 ms

Below is generated by plot.py at 2018-07-25 11:28:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.63 Mbit/s

95th percentile per-packet one-way delay: 44.617 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 54.97 Mbit/s

95th percentile per-packet one-way delay: 41.129 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 29.78 Mbit/s

95th percentile per-packet one-way delay: 50.736 ms

Loss rate: 0.40%

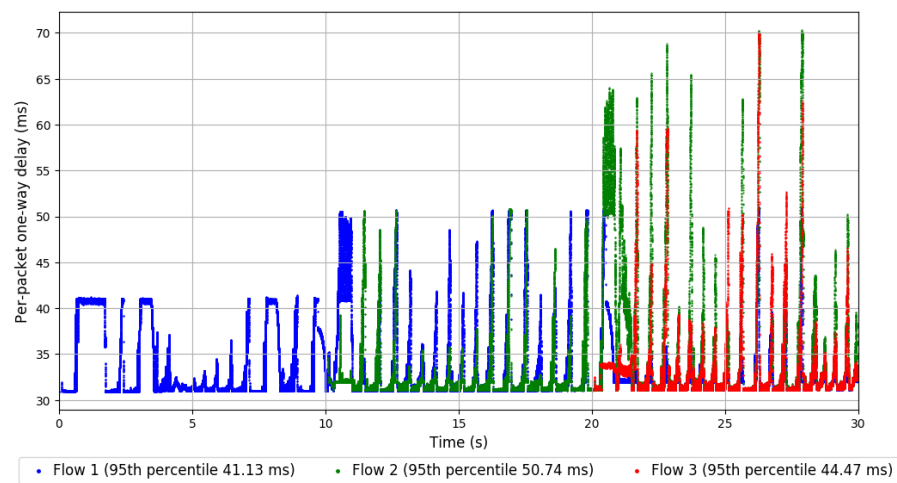
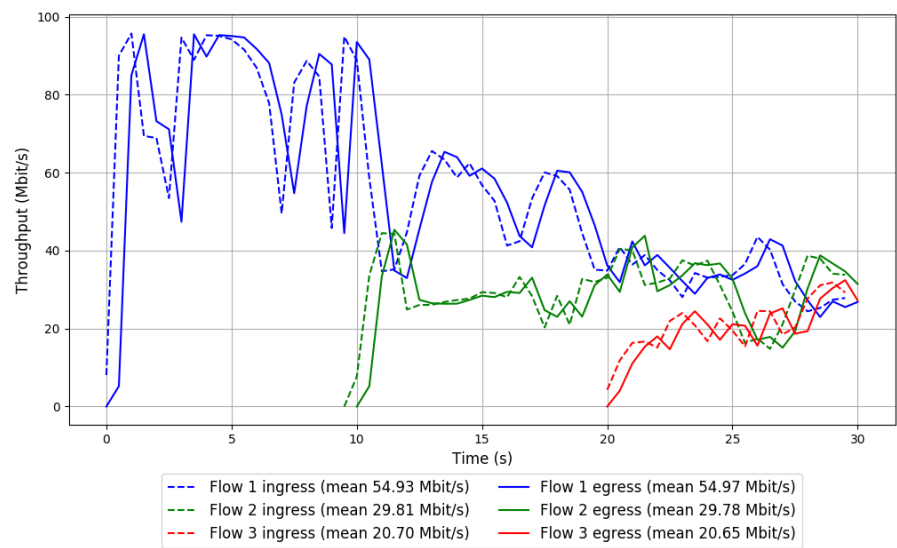
-- Flow 3:

Average throughput: 20.65 Mbit/s

95th percentile per-packet one-way delay: 44.465 ms

Loss rate: 0.92%

Run 3: Report of Copa — Data Link

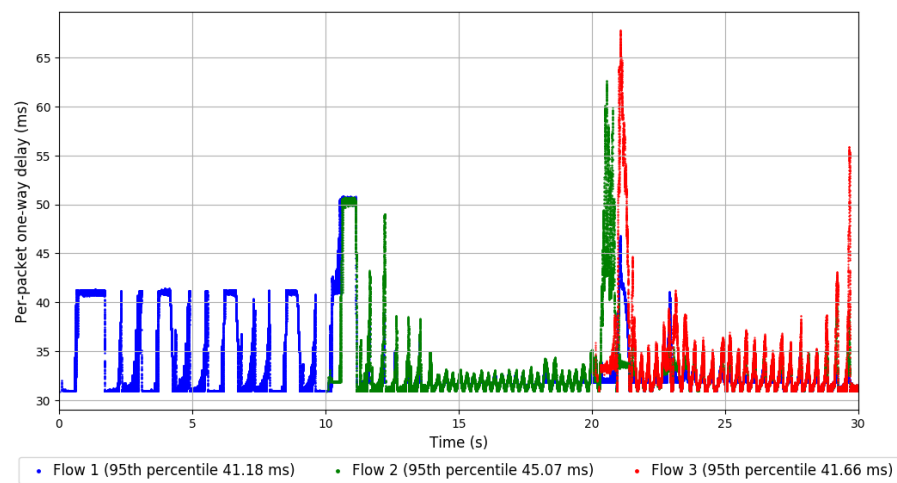
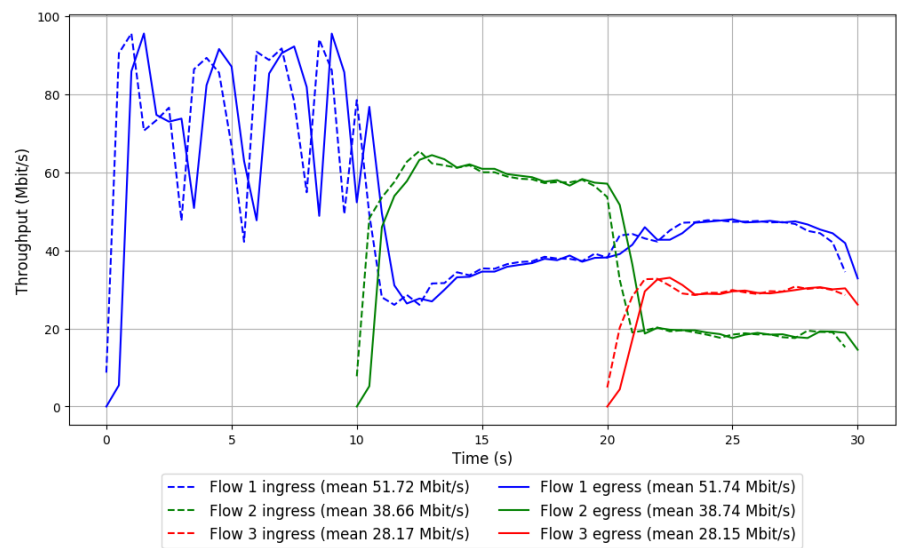


Run 4: Statistics of Copa

Start at: 2018-07-25 08:54:10
End at: 2018-07-25 08:54:40
Local clock offset: -0.591 ms
Remote clock offset: 2.572 ms

```
# Below is generated by plot.py at 2018-07-25 11:28:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.85 Mbit/s
95th percentile per-packet one-way delay: 41.206 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 51.74 Mbit/s
95th percentile per-packet one-way delay: 41.177 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 38.74 Mbit/s
95th percentile per-packet one-way delay: 45.072 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 28.15 Mbit/s
95th percentile per-packet one-way delay: 41.658 ms
Loss rate: 0.74%
```

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-25 09:17:07

End at: 2018-07-25 09:17:37

Local clock offset: 2.548 ms

Remote clock offset: 2.649 ms

Below is generated by plot.py at 2018-07-25 11:28:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.56 Mbit/s

95th percentile per-packet one-way delay: 43.941 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 49.97 Mbit/s

95th percentile per-packet one-way delay: 45.738 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 40.79 Mbit/s

95th percentile per-packet one-way delay: 39.623 ms

Loss rate: 0.37%

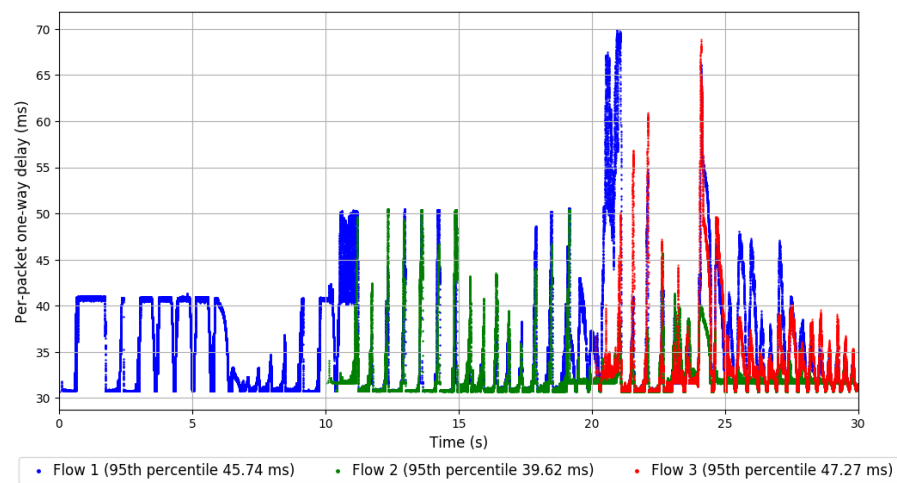
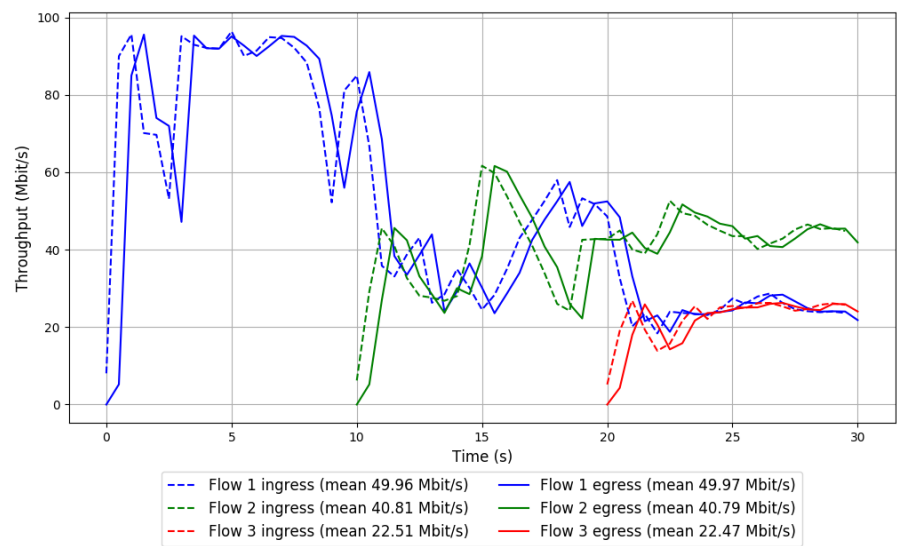
-- Flow 3:

Average throughput: 22.47 Mbit/s

95th percentile per-packet one-way delay: 47.270 ms

Loss rate: 0.81%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-25 09:40:04

End at: 2018-07-25 09:40:34

Local clock offset: 0.963 ms

Remote clock offset: 2.647 ms

Below is generated by plot.py at 2018-07-25 11:28:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.35 Mbit/s

95th percentile per-packet one-way delay: 45.288 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 50.59 Mbit/s

95th percentile per-packet one-way delay: 46.647 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 35.40 Mbit/s

95th percentile per-packet one-way delay: 45.159 ms

Loss rate: 0.31%

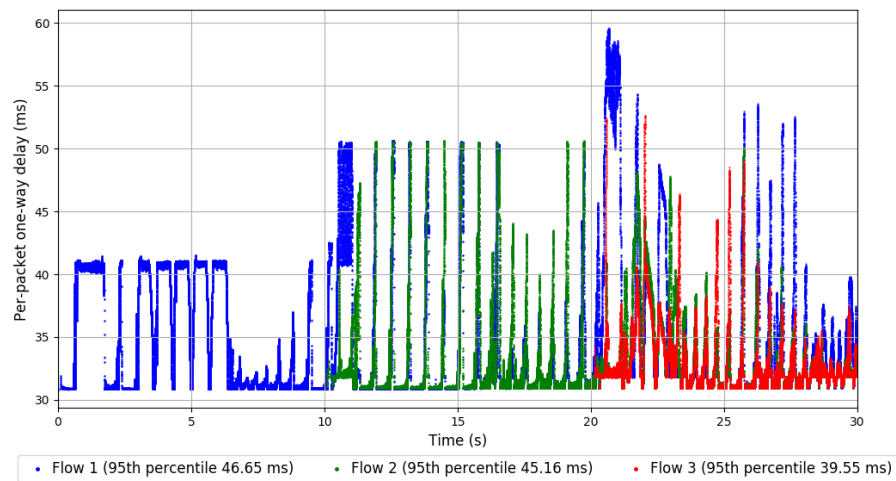
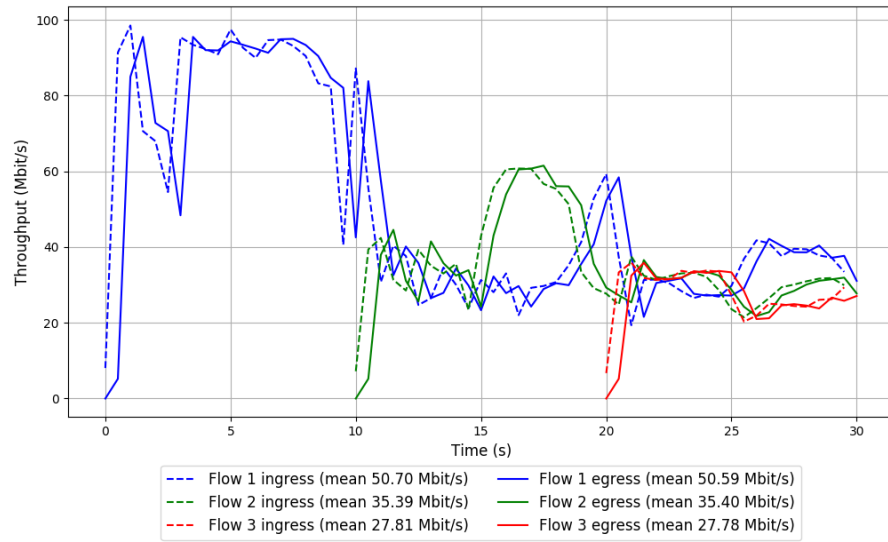
-- Flow 3:

Average throughput: 27.78 Mbit/s

95th percentile per-packet one-way delay: 39.550 ms

Loss rate: 0.76%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-25 10:02:57

End at: 2018-07-25 10:03:27

Local clock offset: -0.499 ms

Remote clock offset: 2.343 ms

Below is generated by plot.py at 2018-07-25 11:29:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.49 Mbit/s

95th percentile per-packet one-way delay: 44.611 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 53.00 Mbit/s

95th percentile per-packet one-way delay: 40.871 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 37.36 Mbit/s

95th percentile per-packet one-way delay: 45.970 ms

Loss rate: 0.34%

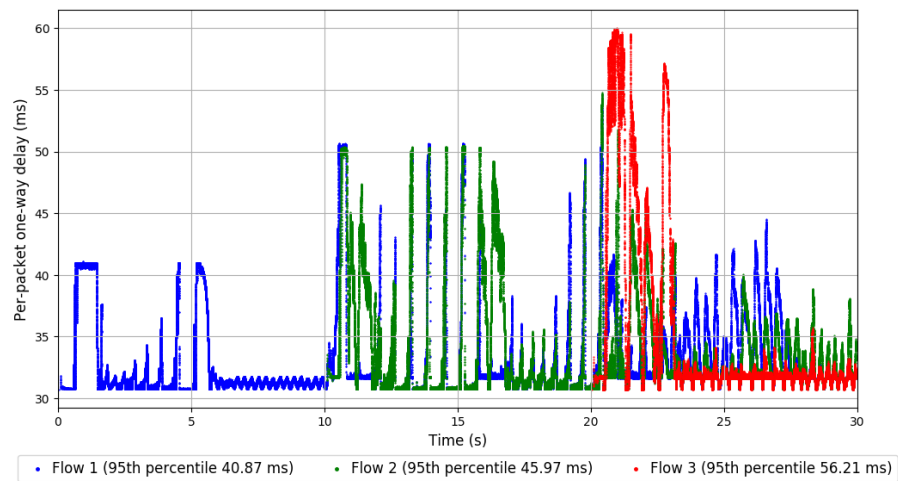
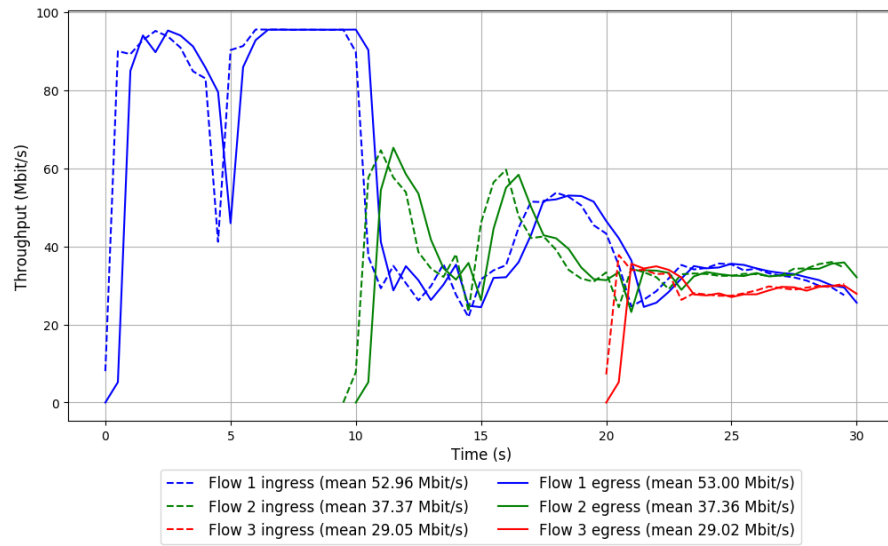
-- Flow 3:

Average throughput: 29.02 Mbit/s

95th percentile per-packet one-way delay: 56.209 ms

Loss rate: 0.76%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-25 10:25:47

End at: 2018-07-25 10:26:17

Local clock offset: -0.255 ms

Remote clock offset: 2.089 ms

Below is generated by plot.py at 2018-07-25 11:29:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.59 Mbit/s

95th percentile per-packet one-way delay: 50.186 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 54.80 Mbit/s

95th percentile per-packet one-way delay: 41.021 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 50.323 ms

Loss rate: 0.29%

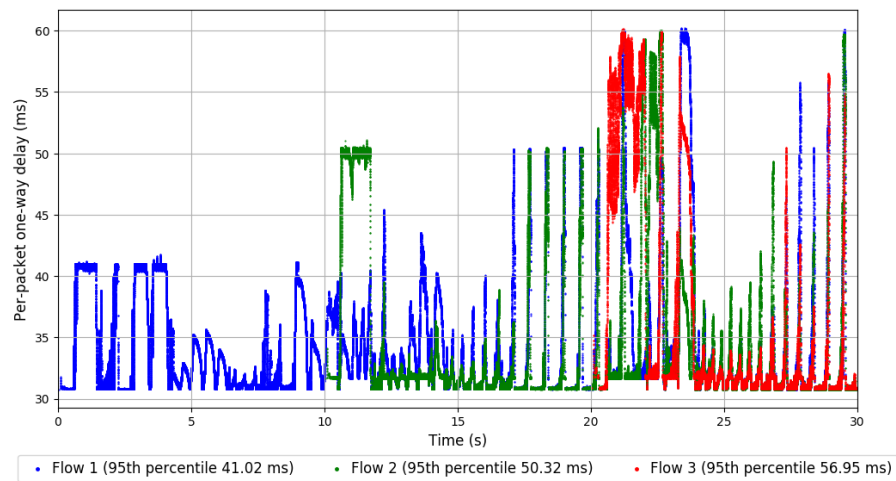
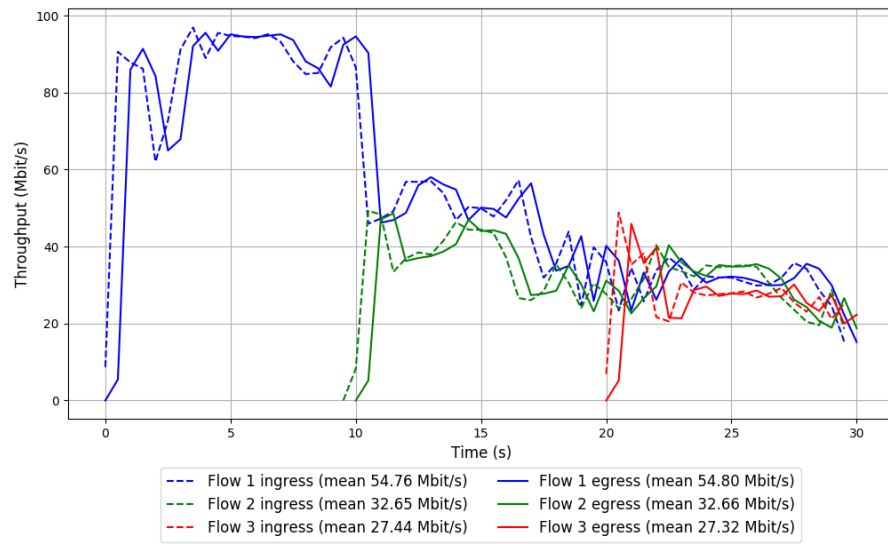
-- Flow 3:

Average throughput: 27.32 Mbit/s

95th percentile per-packet one-way delay: 56.949 ms

Loss rate: 1.02%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-25 10:48:36

End at: 2018-07-25 10:49:06

Local clock offset: 0.044 ms

Remote clock offset: 1.22 ms

Below is generated by plot.py at 2018-07-25 11:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.84 Mbit/s

95th percentile per-packet one-way delay: 40.985 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 54.70 Mbit/s

95th percentile per-packet one-way delay: 40.973 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 43.59 Mbit/s

95th percentile per-packet one-way delay: 41.869 ms

Loss rate: 0.21%

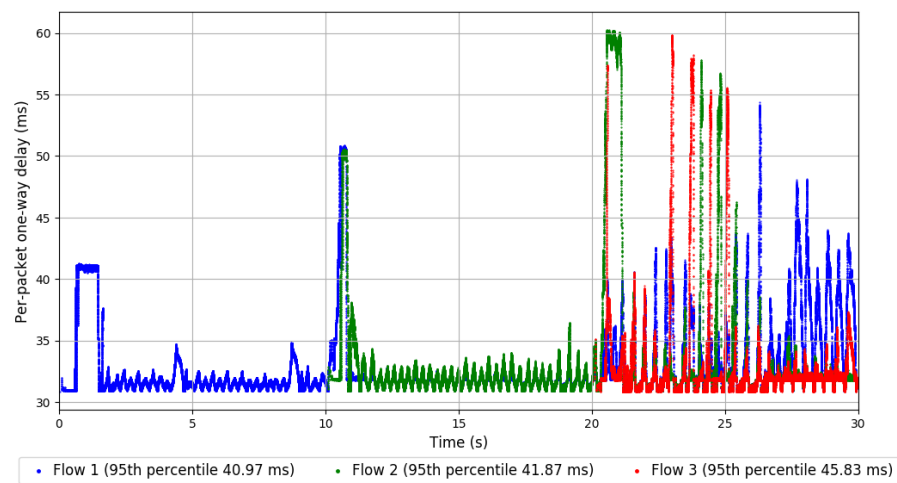
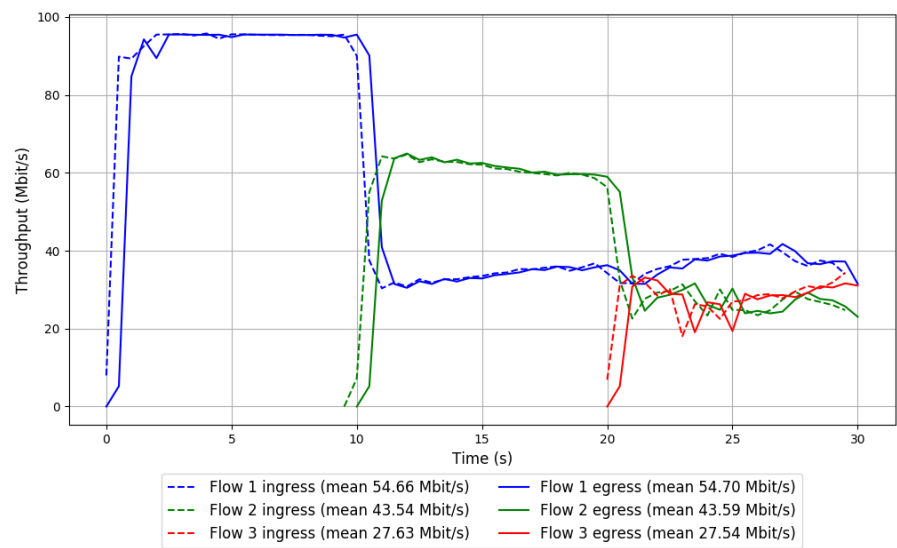
-- Flow 3:

Average throughput: 27.54 Mbit/s

95th percentile per-packet one-way delay: 45.832 ms

Loss rate: 0.99%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-25 11:11:27

End at: 2018-07-25 11:11:57

Local clock offset: 2.114 ms

Remote clock offset: 1.967 ms

Below is generated by plot.py at 2018-07-25 11:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.29 Mbit/s

95th percentile per-packet one-way delay: 40.844 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 47.37 Mbit/s

95th percentile per-packet one-way delay: 40.910 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 51.76 Mbit/s

95th percentile per-packet one-way delay: 39.059 ms

Loss rate: 0.29%

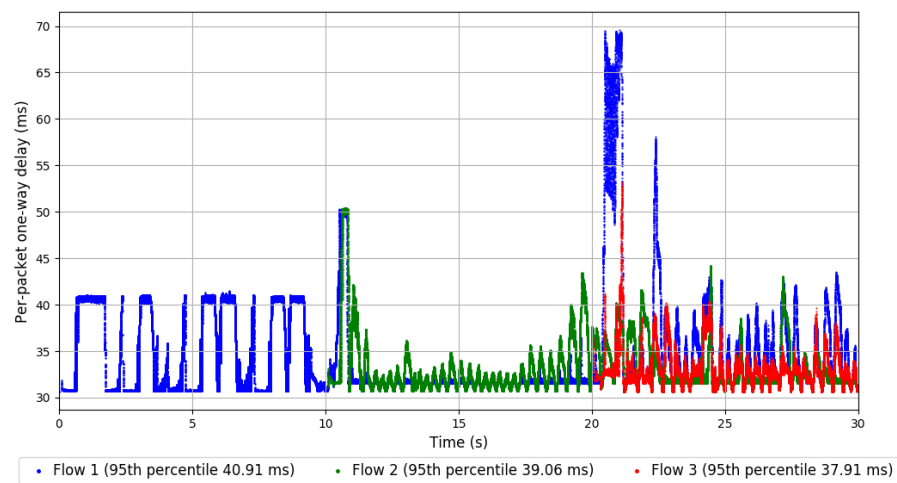
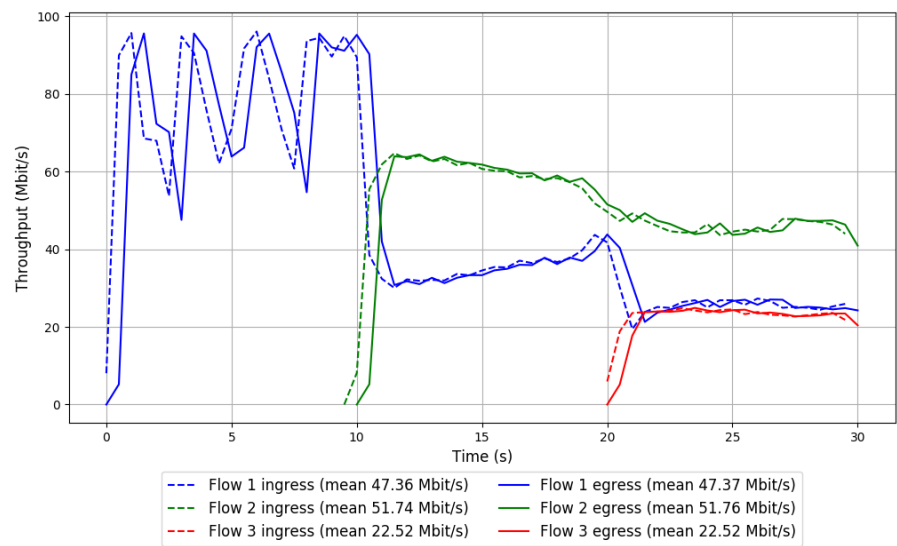
-- Flow 3:

Average throughput: 22.52 Mbit/s

95th percentile per-packet one-way delay: 37.913 ms

Loss rate: 0.65%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-25 07:54:44

End at: 2018-07-25 07:55:14

Local clock offset: 3.384 ms

Remote clock offset: 4.772 ms

Below is generated by plot.py at 2018-07-25 11:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.68 Mbit/s

95th percentile per-packet one-way delay: 38.197 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 46.42 Mbit/s

95th percentile per-packet one-way delay: 37.894 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 45.99 Mbit/s

95th percentile per-packet one-way delay: 37.962 ms

Loss rate: 0.33%

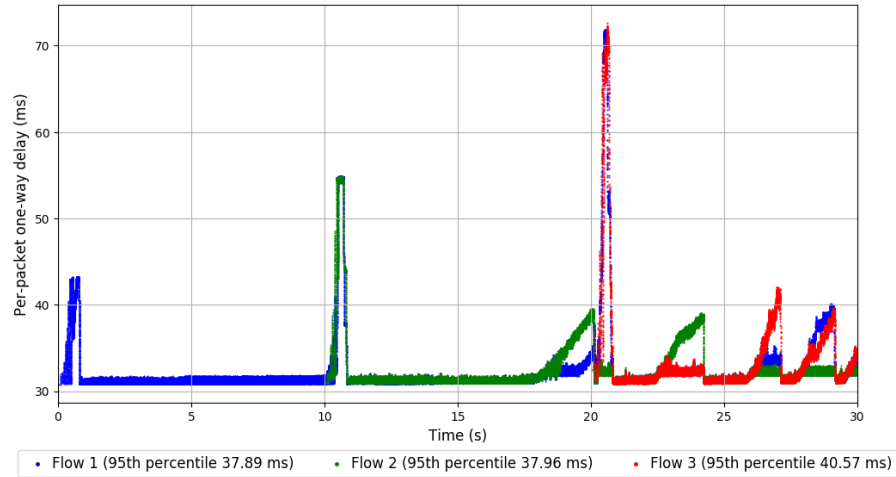
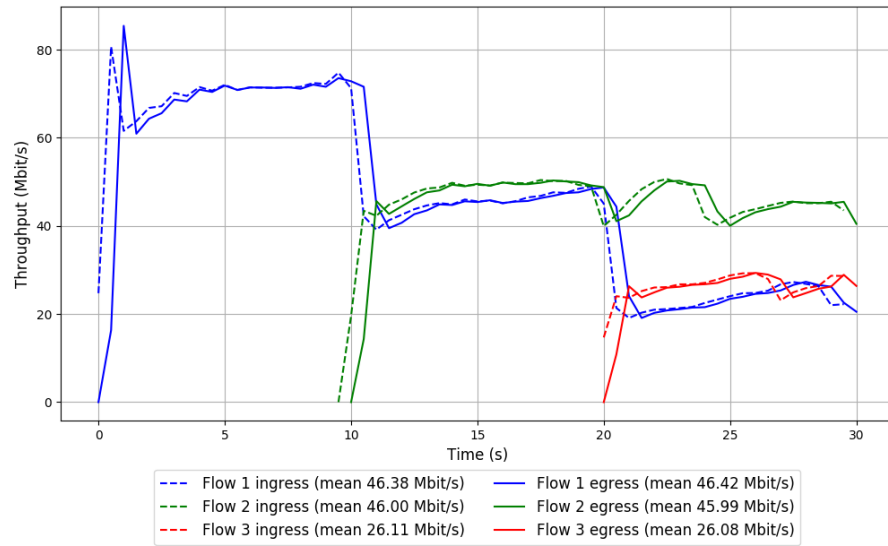
-- Flow 3:

Average throughput: 26.08 Mbit/s

95th percentile per-packet one-way delay: 40.566 ms

Loss rate: 0.79%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-25 08:17:39

End at: 2018-07-25 08:18:09

Local clock offset: 2.845 ms

Remote clock offset: 3.989 ms

Below is generated by plot.py at 2018-07-25 11:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.23 Mbit/s

95th percentile per-packet one-way delay: 37.744 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 54.03 Mbit/s

95th percentile per-packet one-way delay: 37.347 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 32.07 Mbit/s

95th percentile per-packet one-way delay: 39.220 ms

Loss rate: 0.26%

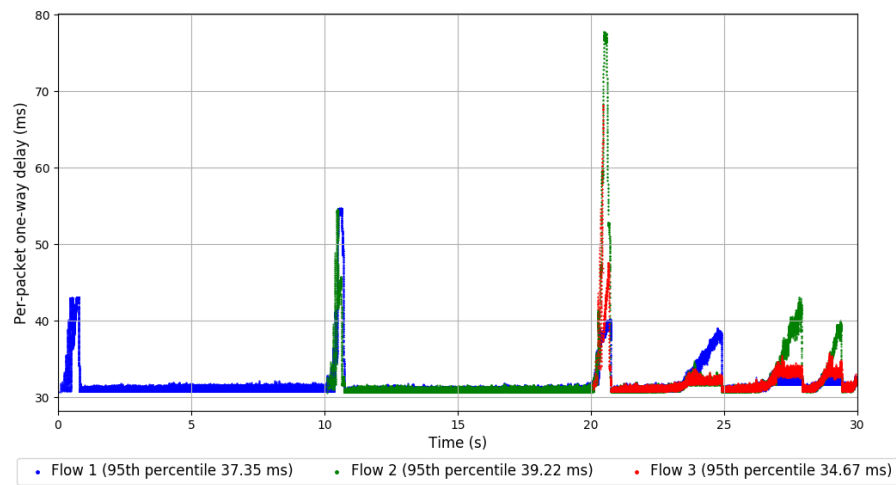
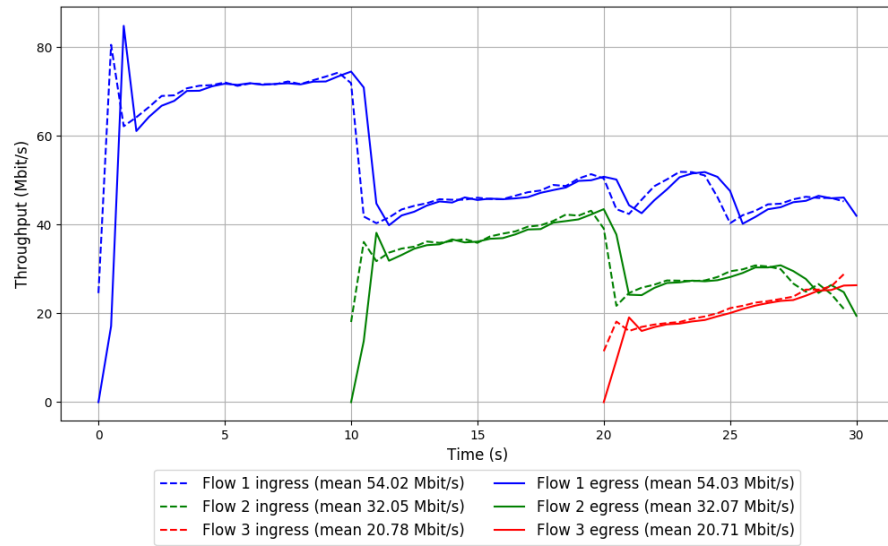
-- Flow 3:

Average throughput: 20.71 Mbit/s

95th percentile per-packet one-way delay: 34.670 ms

Loss rate: 0.99%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-25 08:40:43

End at: 2018-07-25 08:41:13

Local clock offset: 0.669 ms

Remote clock offset: 4.587 ms

Below is generated by plot.py at 2018-07-25 11:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.97 Mbit/s

95th percentile per-packet one-way delay: 38.795 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 53.48 Mbit/s

95th percentile per-packet one-way delay: 37.453 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 37.06 Mbit/s

95th percentile per-packet one-way delay: 39.506 ms

Loss rate: 0.21%

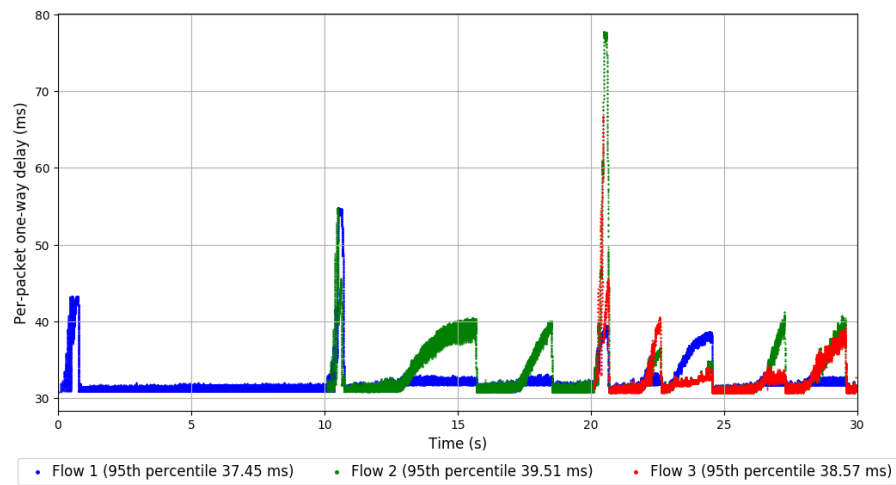
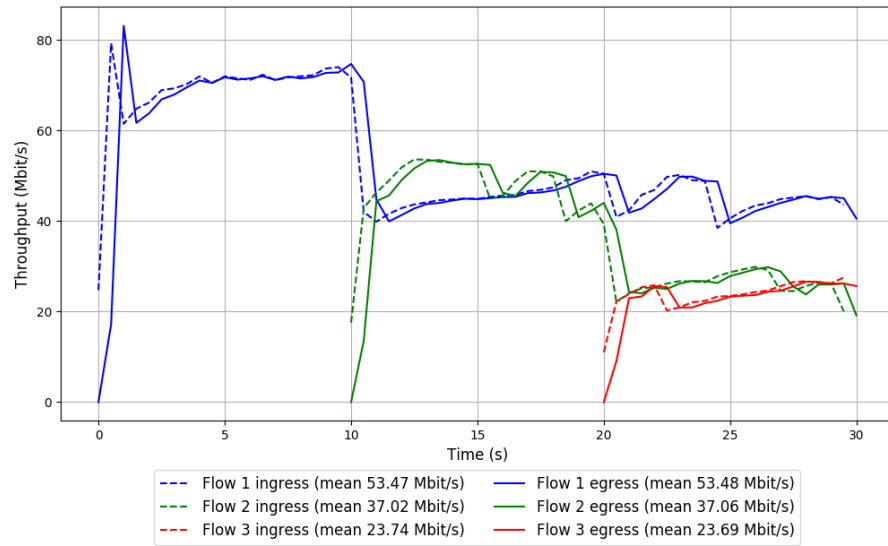
-- Flow 3:

Average throughput: 23.69 Mbit/s

95th percentile per-packet one-way delay: 38.570 ms

Loss rate: 0.83%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-25 09:03:42

End at: 2018-07-25 09:04:12

Local clock offset: -0.225 ms

Remote clock offset: 2.55 ms

Below is generated by plot.py at 2018-07-25 11:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.88 Mbit/s

95th percentile per-packet one-way delay: 38.185 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 53.76 Mbit/s

95th percentile per-packet one-way delay: 37.756 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 36.27 Mbit/s

95th percentile per-packet one-way delay: 38.501 ms

Loss rate: 0.27%

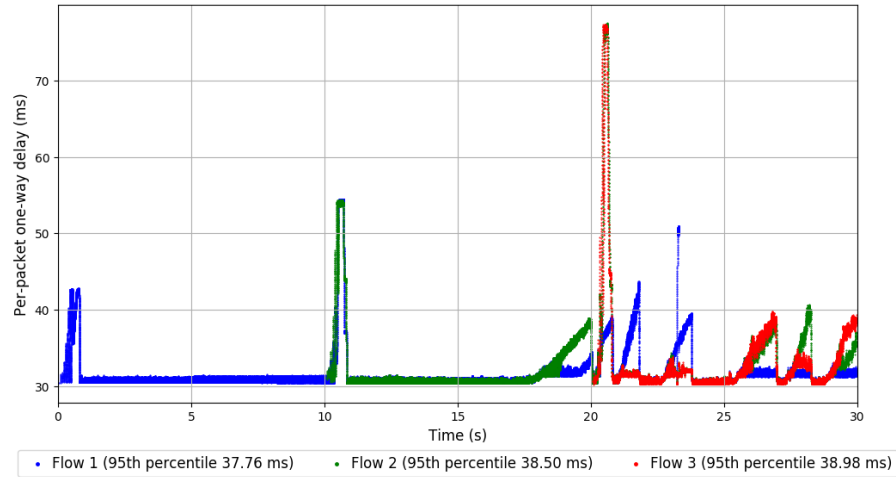
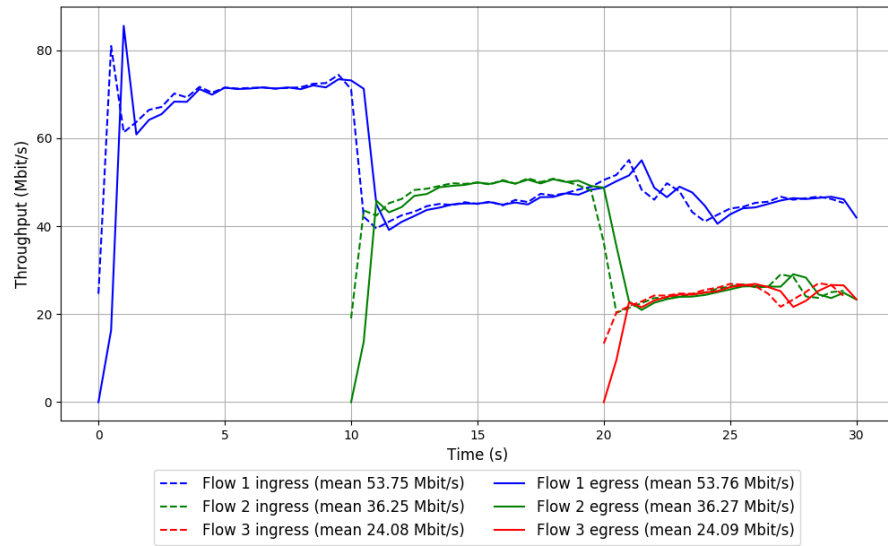
-- Flow 3:

Average throughput: 24.09 Mbit/s

95th percentile per-packet one-way delay: 38.982 ms

Loss rate: 0.58%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-25 09:26:39

End at: 2018-07-25 09:27:09

Local clock offset: 3.062 ms

Remote clock offset: 2.517 ms

Below is generated by plot.py at 2018-07-25 11:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.73 Mbit/s

95th percentile per-packet one-way delay: 38.535 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 49.15 Mbit/s

95th percentile per-packet one-way delay: 37.545 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 37.56 Mbit/s

95th percentile per-packet one-way delay: 38.179 ms

Loss rate: 0.32%

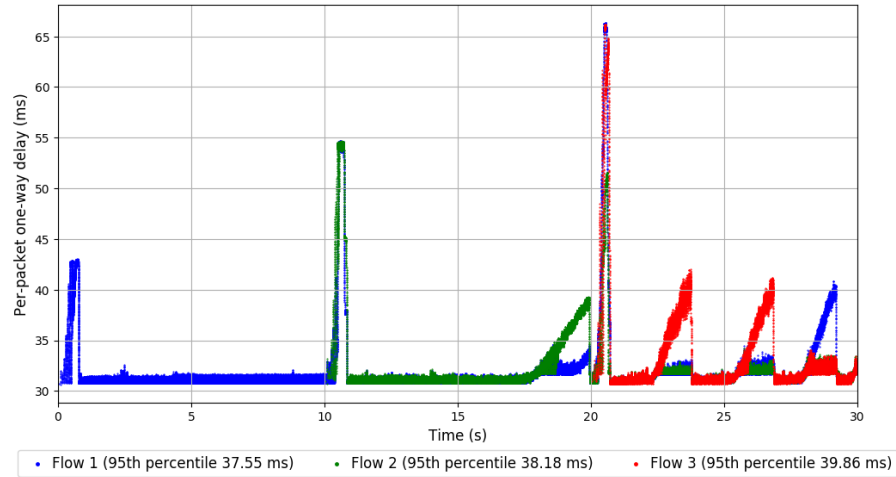
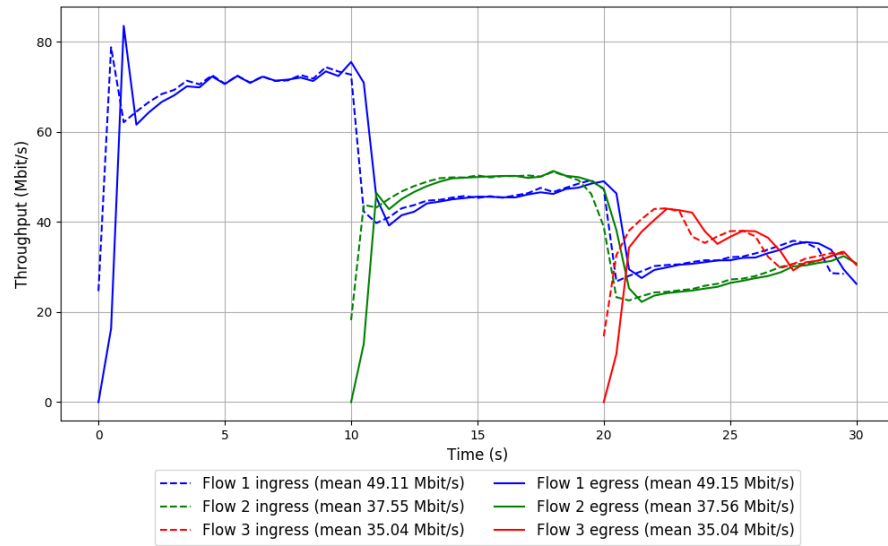
-- Flow 3:

Average throughput: 35.04 Mbit/s

95th percentile per-packet one-way delay: 39.863 ms

Loss rate: 0.64%

Run 5: Report of TCP Cubic — Data Link

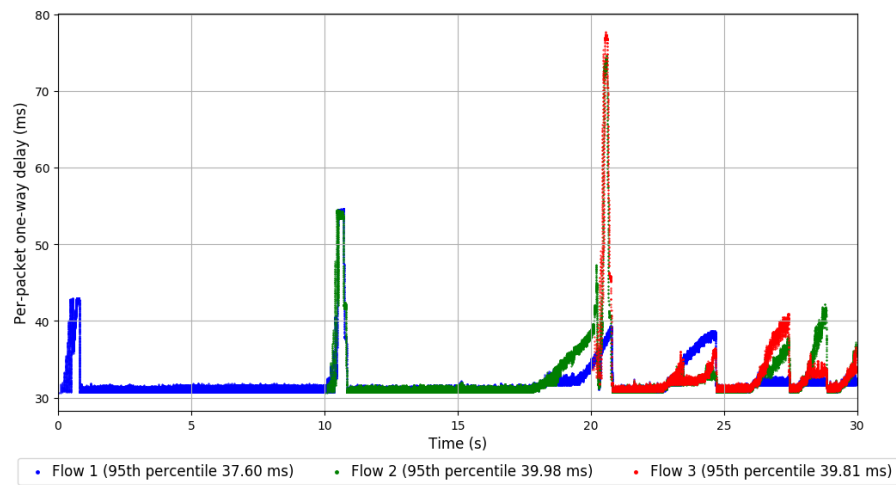
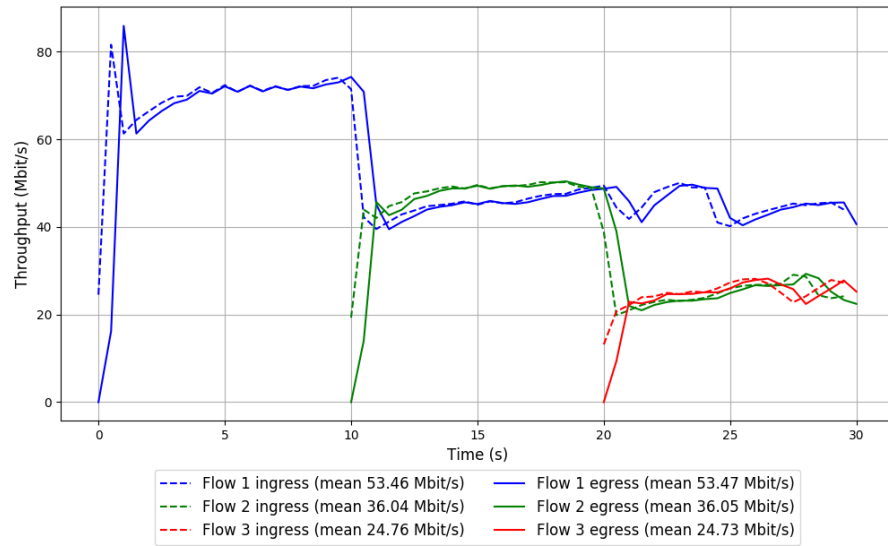


Run 6: Statistics of TCP Cubic

Start at: 2018-07-25 09:49:34
End at: 2018-07-25 09:50:04
Local clock offset: -0.085 ms
Remote clock offset: 2.776 ms

```
# Below is generated by plot.py at 2018-07-25 11:30:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.65 Mbit/s
95th percentile per-packet one-way delay: 38.180 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 53.47 Mbit/s
95th percentile per-packet one-way delay: 37.598 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 36.05 Mbit/s
95th percentile per-packet one-way delay: 39.980 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 39.806 ms
Loss rate: 0.81%
```

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-25 10:12:27

End at: 2018-07-25 10:12:57

Local clock offset: -0.174 ms

Remote clock offset: 2.339 ms

Below is generated by plot.py at 2018-07-25 11:30:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.13 Mbit/s

95th percentile per-packet one-way delay: 38.788 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 62.57 Mbit/s

95th percentile per-packet one-way delay: 38.809 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 33.65 Mbit/s

95th percentile per-packet one-way delay: 38.360 ms

Loss rate: 0.23%

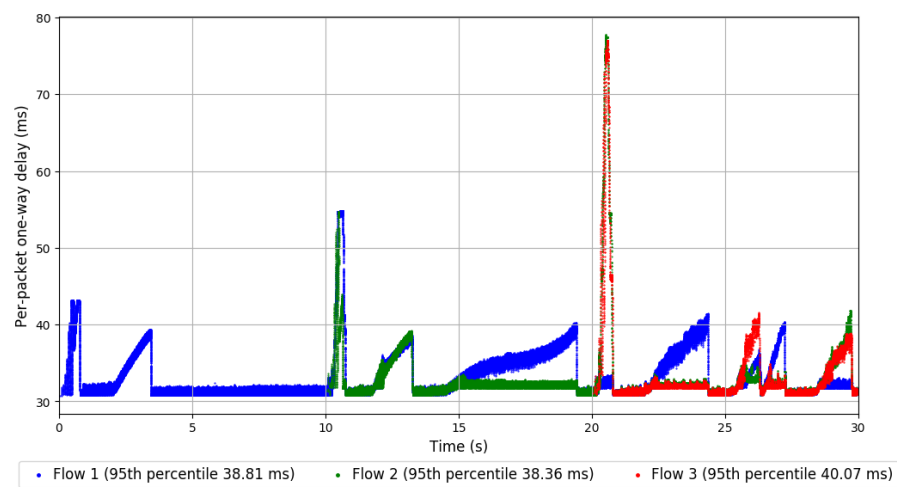
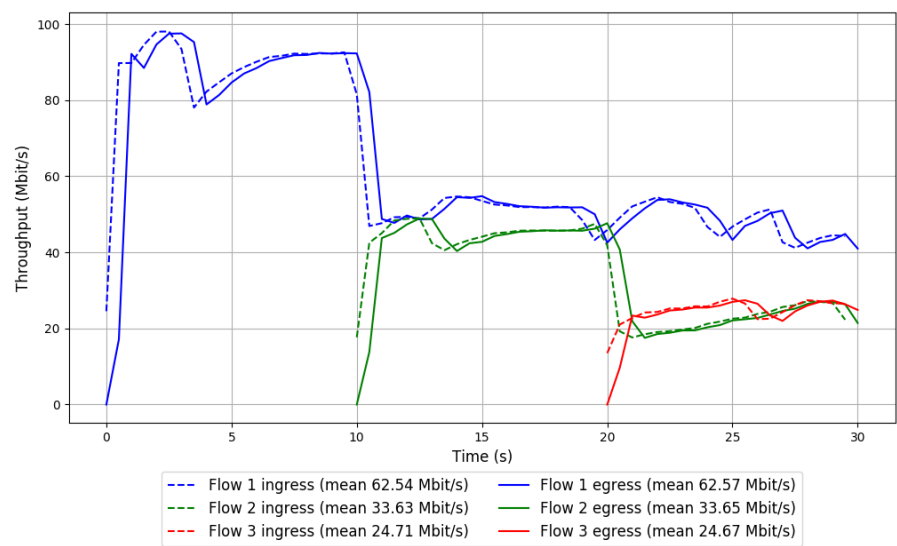
-- Flow 3:

Average throughput: 24.67 Mbit/s

95th percentile per-packet one-way delay: 40.072 ms

Loss rate: 0.79%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-25 10:35:15

End at: 2018-07-25 10:35:45

Local clock offset: -0.168 ms

Remote clock offset: 1.453 ms

Below is generated by plot.py at 2018-07-25 11:30:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.41 Mbit/s

95th percentile per-packet one-way delay: 37.809 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 46.64 Mbit/s

95th percentile per-packet one-way delay: 35.752 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 37.19 Mbit/s

95th percentile per-packet one-way delay: 39.034 ms

Loss rate: 0.26%

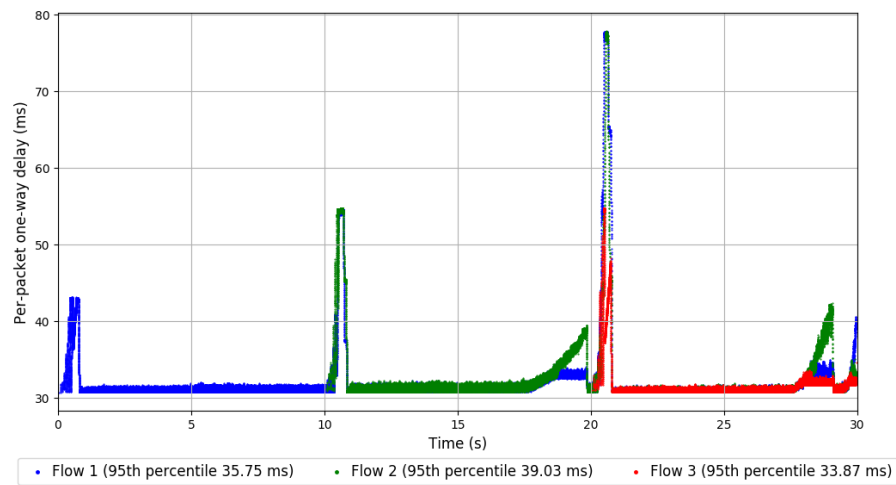
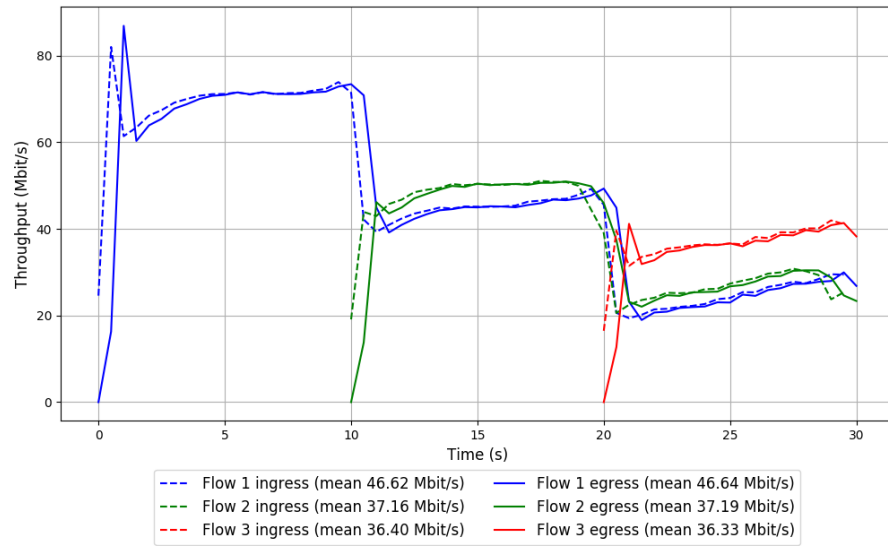
-- Flow 3:

Average throughput: 36.33 Mbit/s

95th percentile per-packet one-way delay: 33.865 ms

Loss rate: 0.80%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-25 10:58:06

End at: 2018-07-25 10:58:36

Local clock offset: -0.058 ms

Remote clock offset: 1.346 ms

Below is generated by plot.py at 2018-07-25 11:30:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.07 Mbit/s

95th percentile per-packet one-way delay: 37.697 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 48.96 Mbit/s

95th percentile per-packet one-way delay: 37.801 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 32.09 Mbit/s

95th percentile per-packet one-way delay: 36.413 ms

Loss rate: 0.40%

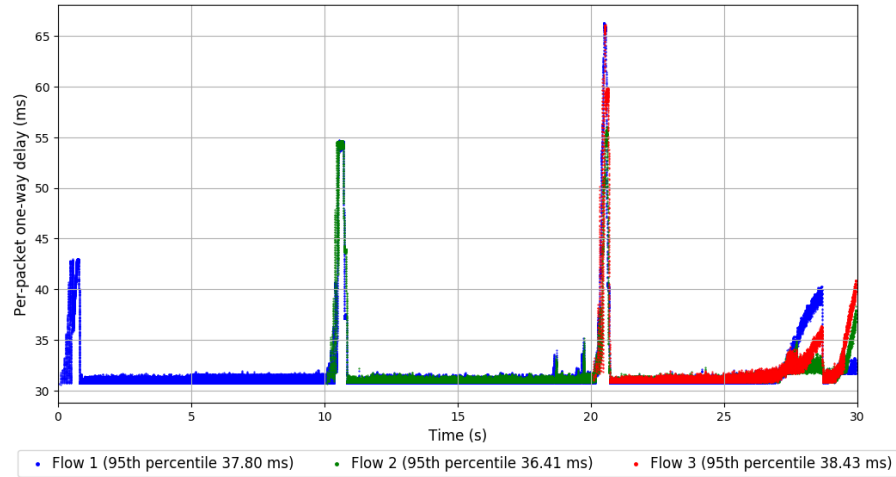
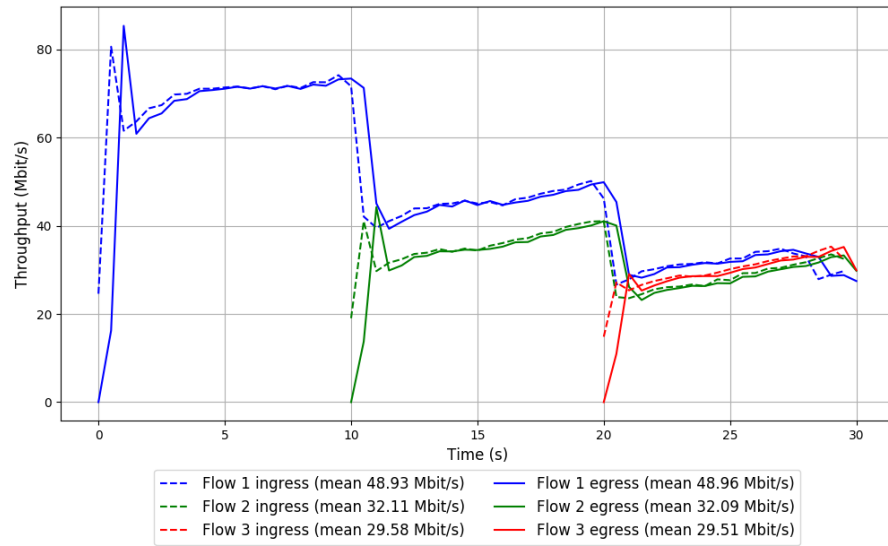
-- Flow 3:

Average throughput: 29.51 Mbit/s

95th percentile per-packet one-way delay: 38.428 ms

Loss rate: 0.92%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-25 11:20:58

End at: 2018-07-25 11:21:28

Local clock offset: 3.112 ms

Remote clock offset: 2.167 ms

Below is generated by plot.py at 2018-07-25 11:30:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.74 Mbit/s

95th percentile per-packet one-way delay: 39.093 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 49.00 Mbit/s

95th percentile per-packet one-way delay: 37.587 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 37.81 Mbit/s

95th percentile per-packet one-way delay: 38.696 ms

Loss rate: 0.33%

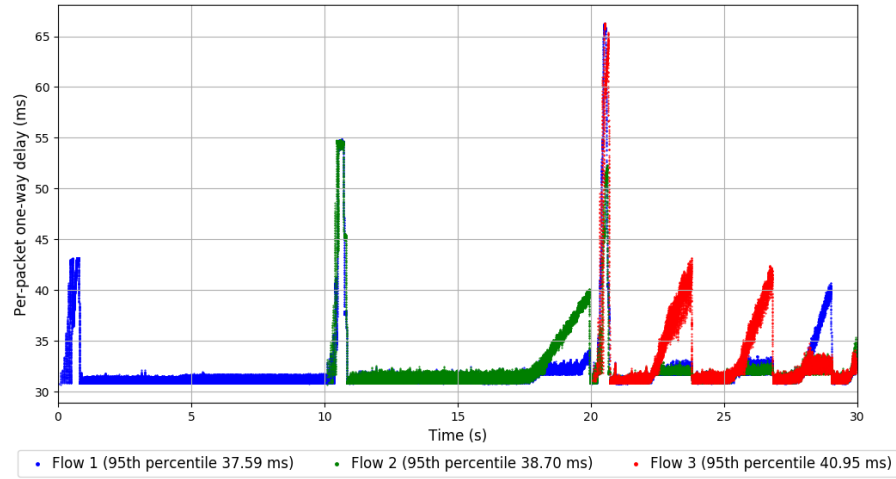
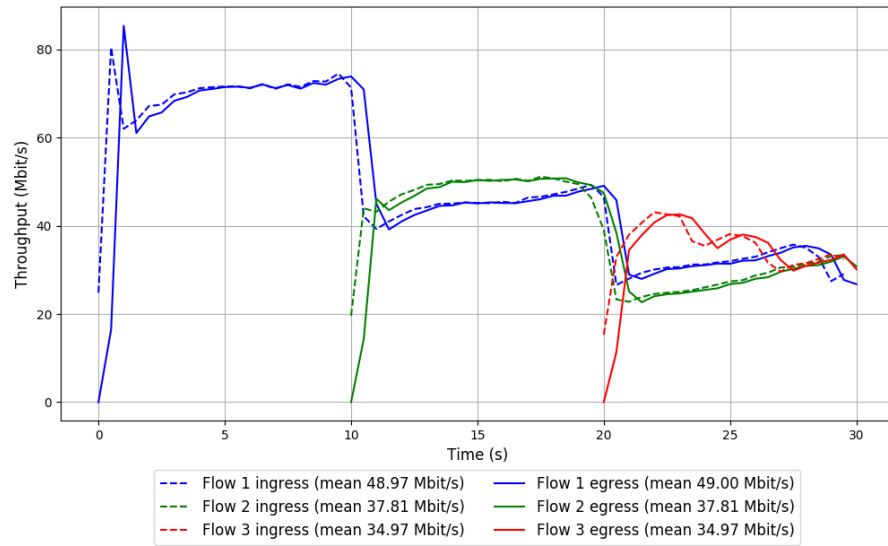
-- Flow 3:

Average throughput: 34.97 Mbit/s

95th percentile per-packet one-way delay: 40.946 ms

Loss rate: 0.65%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-25 07:46:37

End at: 2018-07-25 07:47:07

Local clock offset: 3.363 ms

Remote clock offset: 3.86 ms

Below is generated by plot.py at 2018-07-25 11:31:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 67.122 ms

Loss rate: 2.58%

-- Flow 1:

Average throughput: 56.31 Mbit/s

95th percentile per-packet one-way delay: 67.002 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 36.00 Mbit/s

95th percentile per-packet one-way delay: 67.928 ms

Loss rate: 4.00%

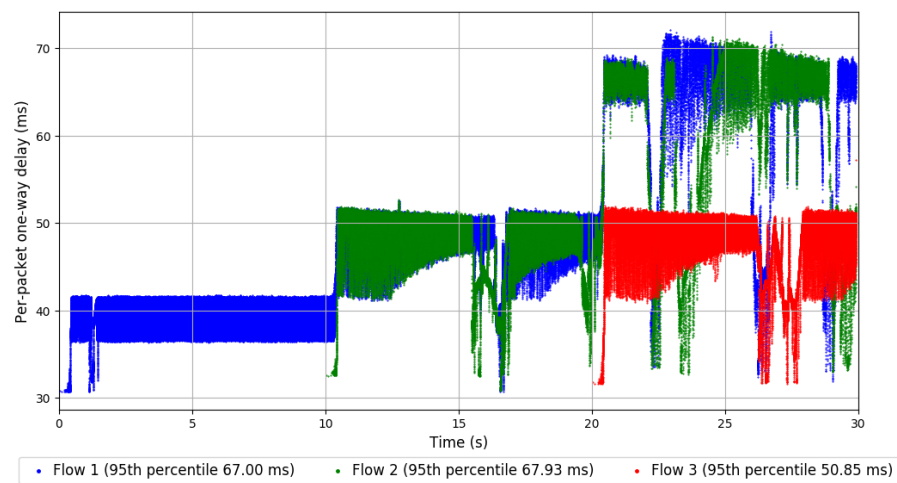
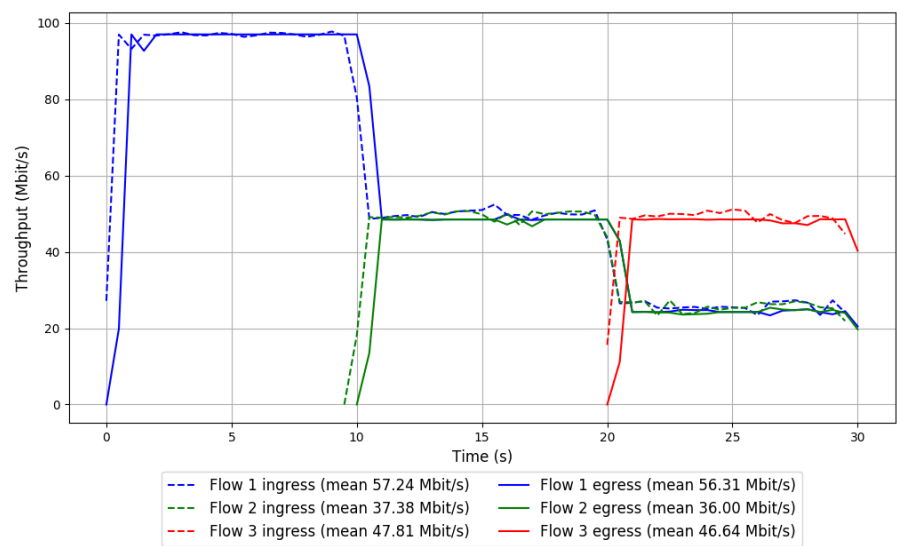
-- Flow 3:

Average throughput: 46.64 Mbit/s

95th percentile per-packet one-way delay: 50.851 ms

Loss rate: 3.08%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-25 08:09:32

End at: 2018-07-25 08:10:02

Local clock offset: 3.1 ms

Remote clock offset: 4.986 ms

Below is generated by plot.py at 2018-07-25 11:31:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 67.192 ms

Loss rate: 2.43%

-- Flow 1:

Average throughput: 56.26 Mbit/s

95th percentile per-packet one-way delay: 66.765 ms

Loss rate: 1.58%

-- Flow 2:

Average throughput: 36.23 Mbit/s

95th percentile per-packet one-way delay: 68.192 ms

Loss rate: 3.80%

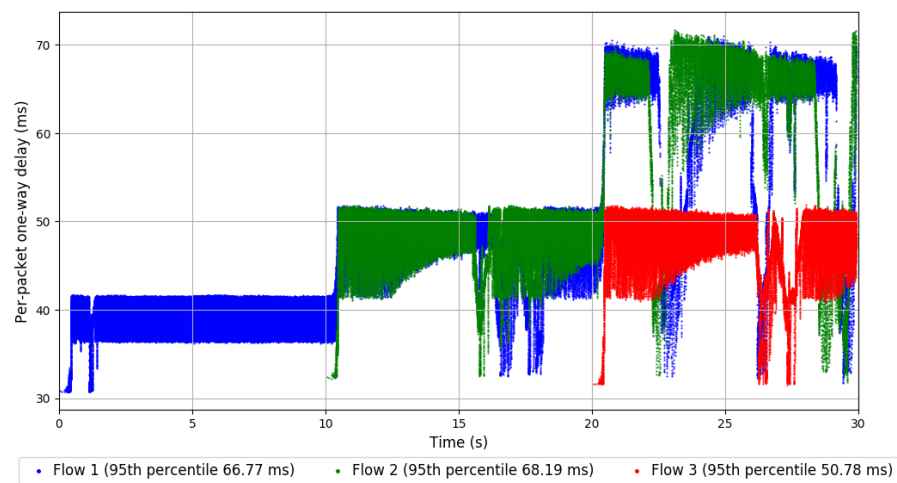
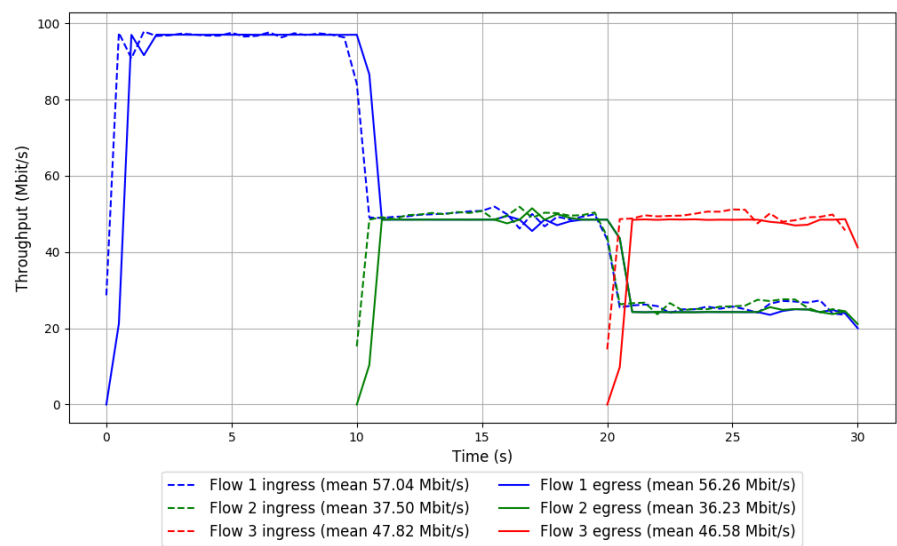
-- Flow 3:

Average throughput: 46.58 Mbit/s

95th percentile per-packet one-way delay: 50.785 ms

Loss rate: 3.31%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-25 08:32:35

End at: 2018-07-25 08:33:05

Local clock offset: 2.391 ms

Remote clock offset: 4.355 ms

Below is generated by plot.py at 2018-07-25 11:31:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 67.886 ms

Loss rate: 2.47%

-- Flow 1:

Average throughput: 64.97 Mbit/s

95th percentile per-packet one-way delay: 50.707 ms

Loss rate: 1.58%

-- Flow 2:

Average throughput: 34.60 Mbit/s

95th percentile per-packet one-way delay: 68.869 ms

Loss rate: 3.98%

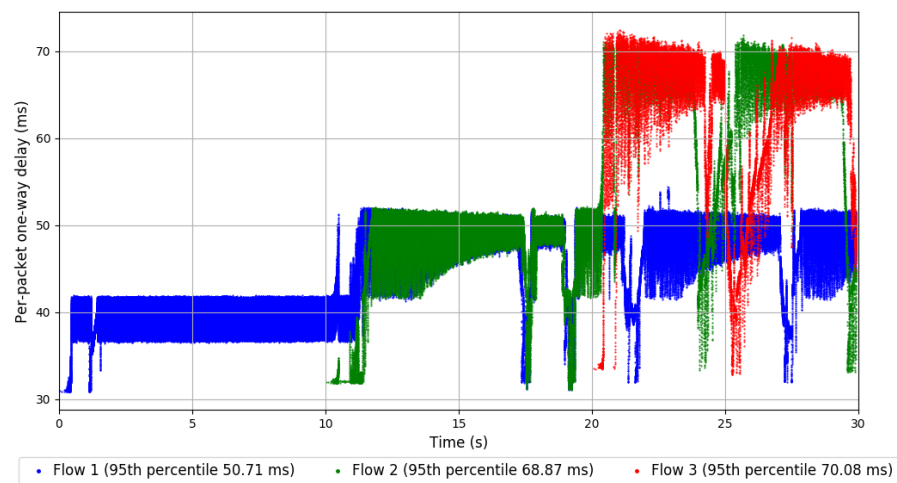
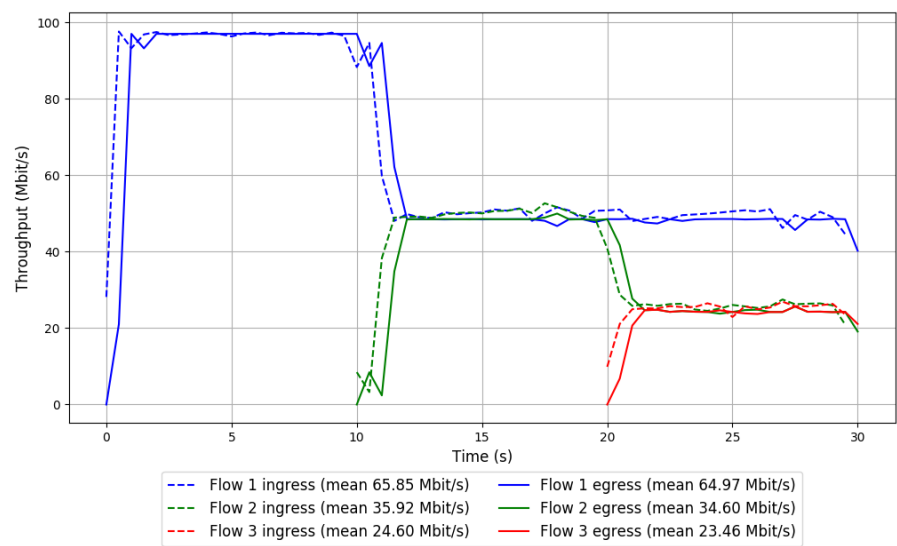
-- Flow 3:

Average throughput: 23.46 Mbit/s

95th percentile per-packet one-way delay: 70.079 ms

Loss rate: 5.24%

Run 3: Report of FillP — Data Link

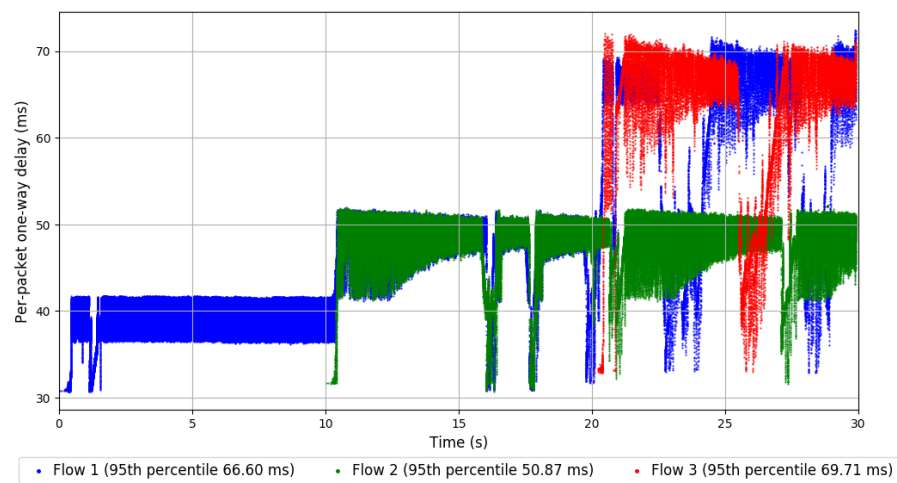
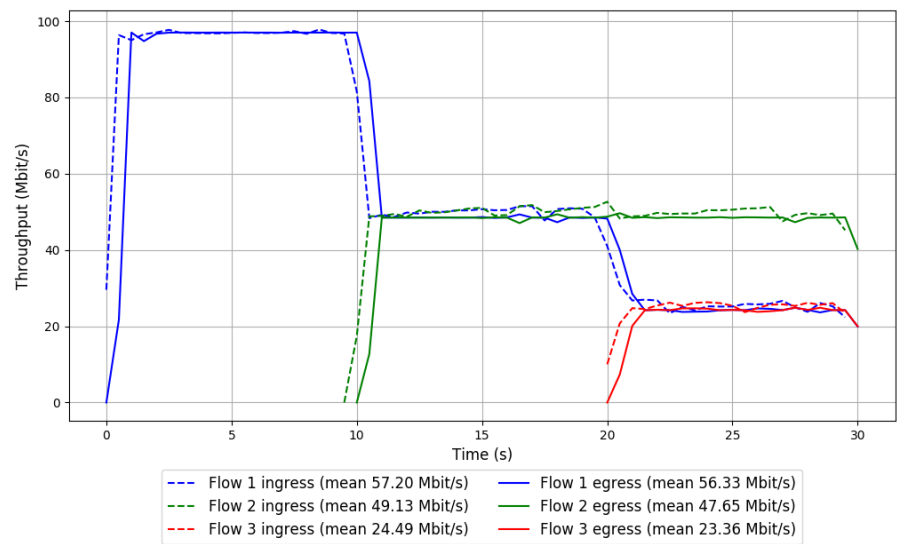


Run 4: Statistics of FillP

Start at: 2018-07-25 08:55:34
End at: 2018-07-25 08:56:04
Local clock offset: -0.693 ms
Remote clock offset: 2.579 ms

Below is generated by plot.py at 2018-07-25 11:31:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.75 Mbit/s
95th percentile per-packet one-way delay: 67.336 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 56.33 Mbit/s
95th percentile per-packet one-way delay: 66.604 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 47.65 Mbit/s
95th percentile per-packet one-way delay: 50.868 ms
Loss rate: 3.37%
-- Flow 3:
Average throughput: 23.36 Mbit/s
95th percentile per-packet one-way delay: 69.707 ms
Loss rate: 5.38%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-25 09:18:31

End at: 2018-07-25 09:19:01

Local clock offset: 2.628 ms

Remote clock offset: 2.594 ms

Below is generated by plot.py at 2018-07-25 11:31:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.74 Mbit/s

95th percentile per-packet one-way delay: 59.350 ms

Loss rate: 2.26%

-- Flow 1:

Average throughput: 59.48 Mbit/s

95th percentile per-packet one-way delay: 58.266 ms

Loss rate: 1.60%

-- Flow 2:

Average throughput: 39.51 Mbit/s

95th percentile per-packet one-way delay: 59.476 ms

Loss rate: 3.24%

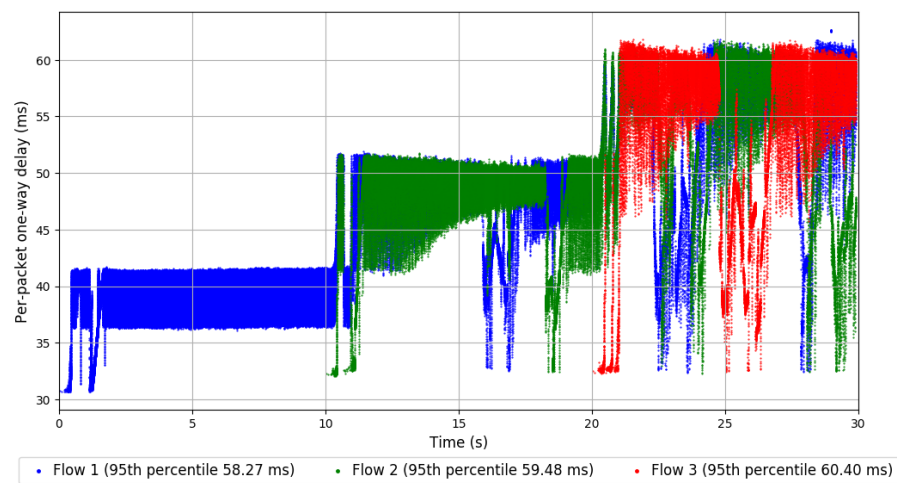
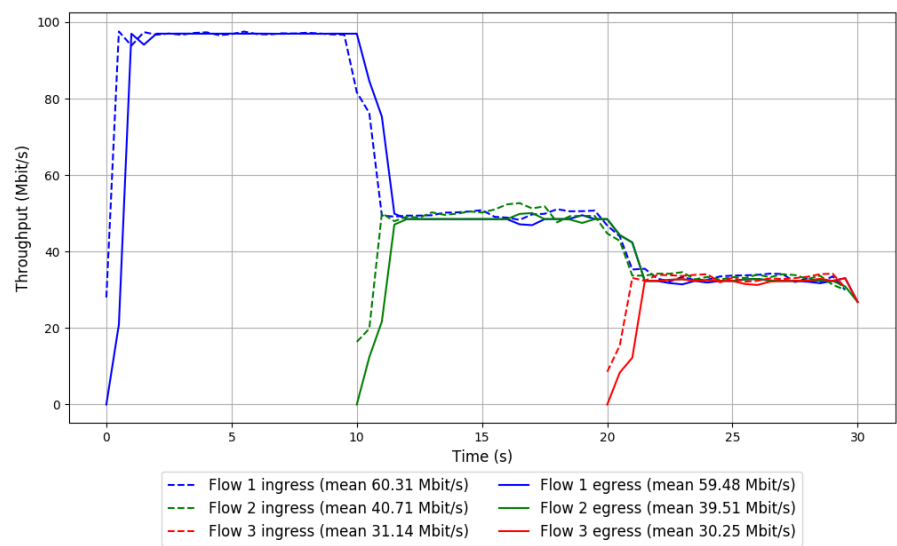
-- Flow 3:

Average throughput: 30.25 Mbit/s

95th percentile per-packet one-way delay: 60.404 ms

Loss rate: 3.61%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-25 09:41:28

End at: 2018-07-25 09:41:58

Local clock offset: 0.735 ms

Remote clock offset: 2.694 ms

Below is generated by plot.py at 2018-07-25 11:31:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 67.063 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 56.31 Mbit/s

95th percentile per-packet one-way delay: 67.222 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 36.18 Mbit/s

95th percentile per-packet one-way delay: 67.683 ms

Loss rate: 3.69%

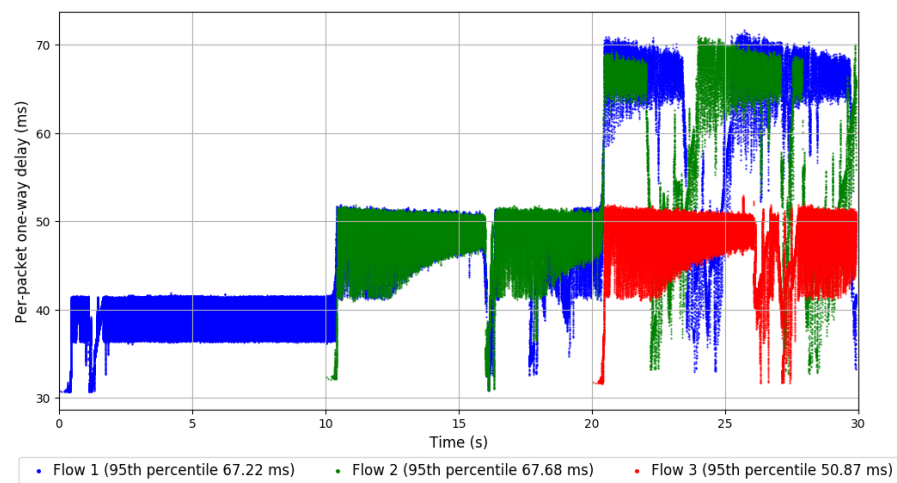
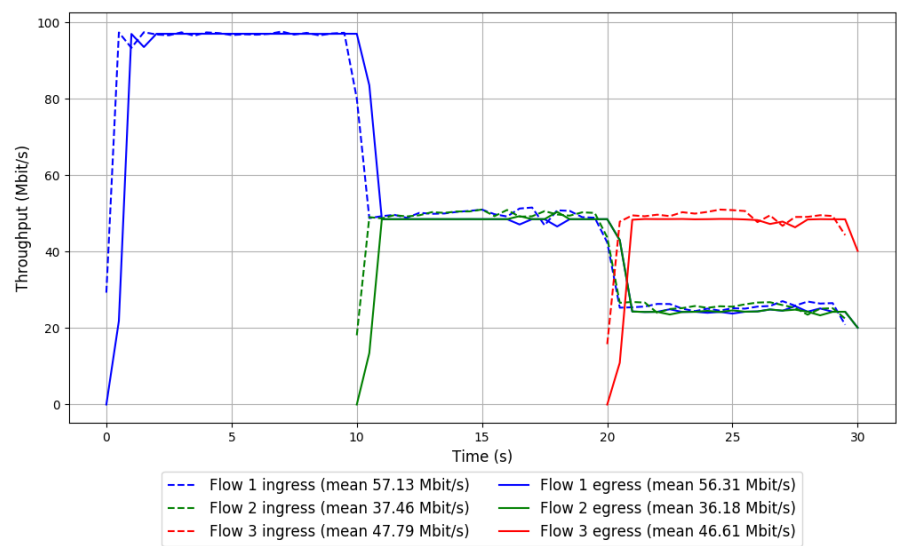
-- Flow 3:

Average throughput: 46.61 Mbit/s

95th percentile per-packet one-way delay: 50.865 ms

Loss rate: 3.18%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-25 10:04:20

End at: 2018-07-25 10:04:50

Local clock offset: -0.438 ms

Remote clock offset: 2.316 ms

Below is generated by plot.py at 2018-07-25 11:31:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 67.491 ms

Loss rate: 2.50%

-- Flow 1:

Average throughput: 64.16 Mbit/s

95th percentile per-packet one-way delay: 50.508 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 35.88 Mbit/s

95th percentile per-packet one-way delay: 68.572 ms

Loss rate: 3.92%

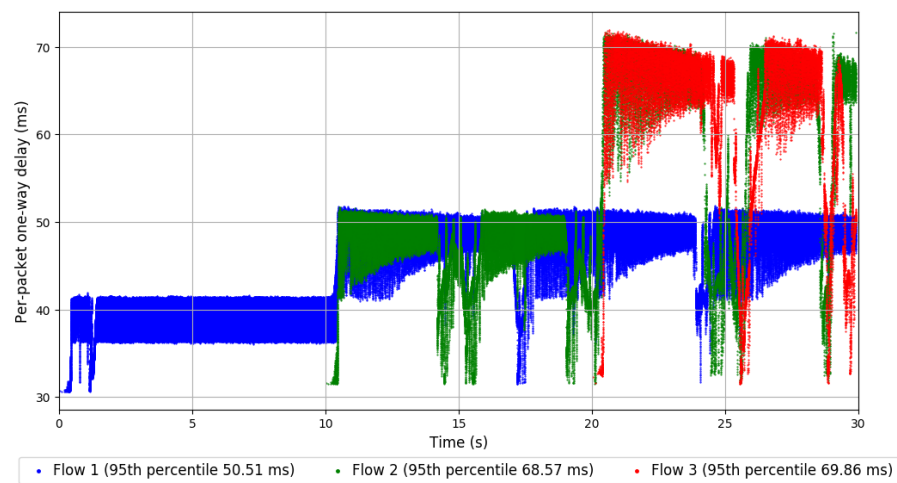
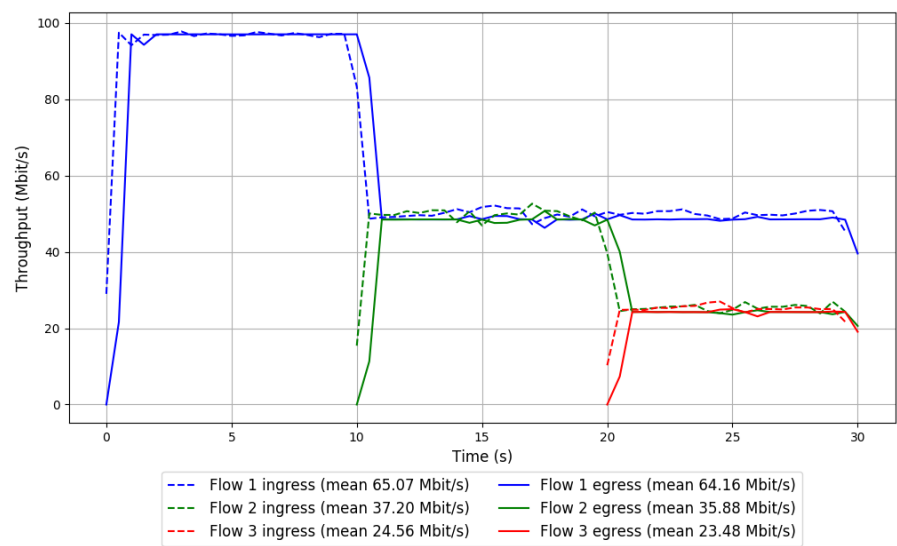
-- Flow 3:

Average throughput: 23.48 Mbit/s

95th percentile per-packet one-way delay: 69.864 ms

Loss rate: 5.04%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-25 10:27:10

End at: 2018-07-25 10:27:40

Local clock offset: -0.264 ms

Remote clock offset: 1.915 ms

Below is generated by plot.py at 2018-07-25 11:31:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 59.487 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 60.25 Mbit/s

95th percentile per-packet one-way delay: 58.680 ms

Loss rate: 1.60%

-- Flow 2:

Average throughput: 38.77 Mbit/s

95th percentile per-packet one-way delay: 59.694 ms

Loss rate: 3.39%

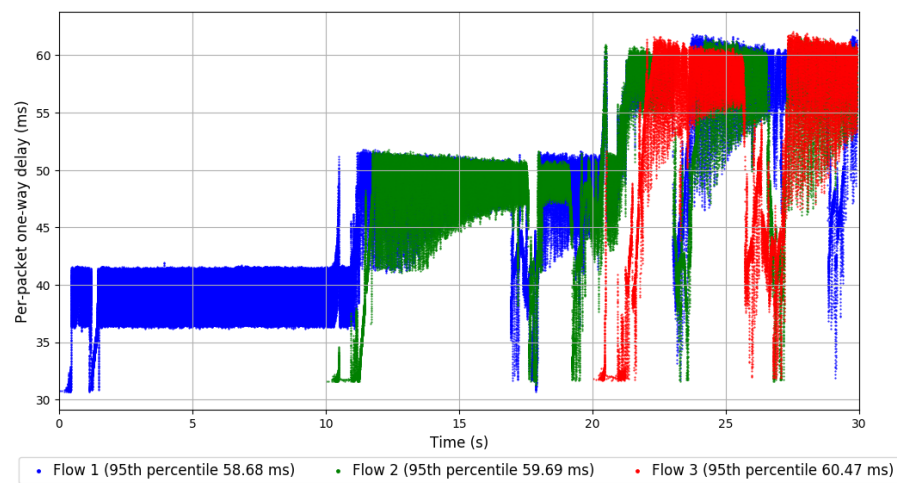
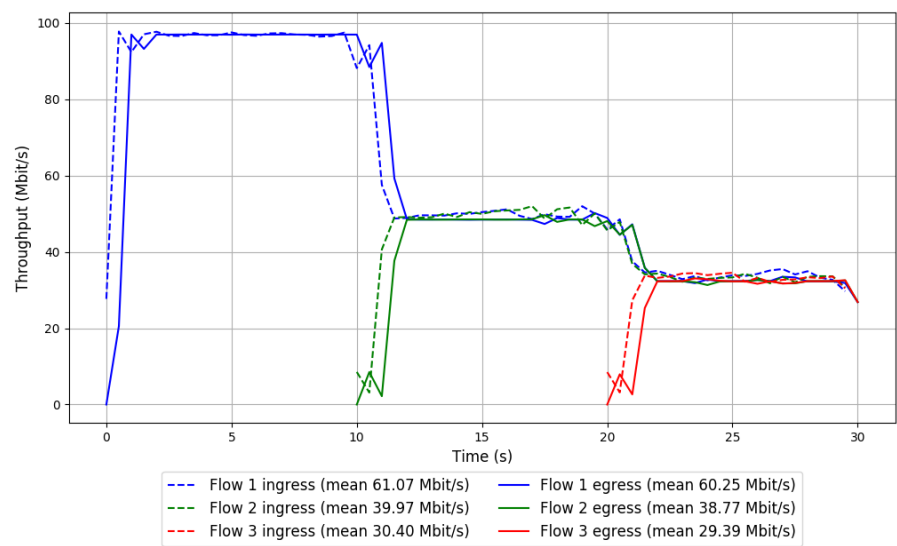
-- Flow 3:

Average throughput: 29.39 Mbit/s

95th percentile per-packet one-way delay: 60.468 ms

Loss rate: 4.10%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-25 10:50:00

End at: 2018-07-25 10:50:30

Local clock offset: 0.058 ms

Remote clock offset: 1.211 ms

Below is generated by plot.py at 2018-07-25 11:32:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 67.057 ms

Loss rate: 2.56%

-- Flow 1:

Average throughput: 56.78 Mbit/s

95th percentile per-packet one-way delay: 66.689 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 35.41 Mbit/s

95th percentile per-packet one-way delay: 68.176 ms

Loss rate: 3.79%

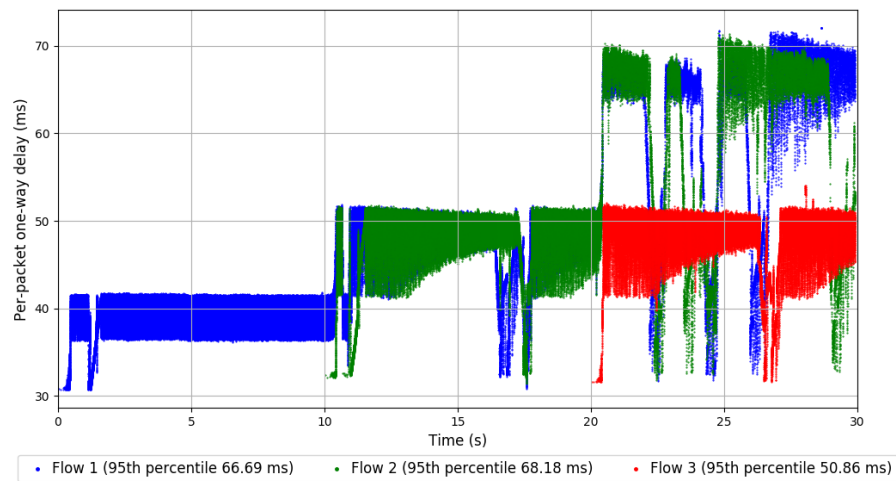
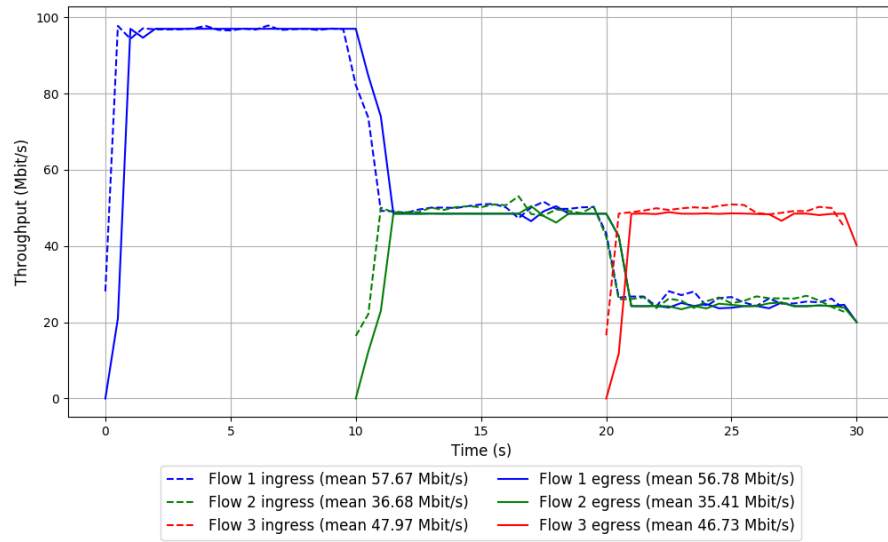
-- Flow 3:

Average throughput: 46.73 Mbit/s

95th percentile per-packet one-way delay: 50.858 ms

Loss rate: 3.32%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-25 11:12:51

End at: 2018-07-25 11:13:21

Local clock offset: 2.36 ms

Remote clock offset: 2.034 ms

Below is generated by plot.py at 2018-07-25 11:32:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 66.532 ms

Loss rate: 2.50%

-- Flow 1:

Average throughput: 63.98 Mbit/s

95th percentile per-packet one-way delay: 50.385 ms

Loss rate: 1.69%

-- Flow 2:

Average throughput: 36.75 Mbit/s

95th percentile per-packet one-way delay: 67.836 ms

Loss rate: 3.54%

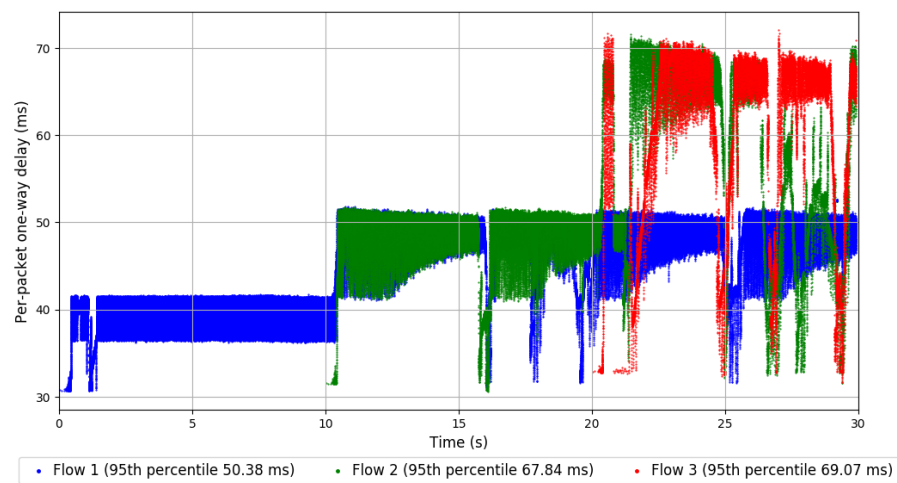
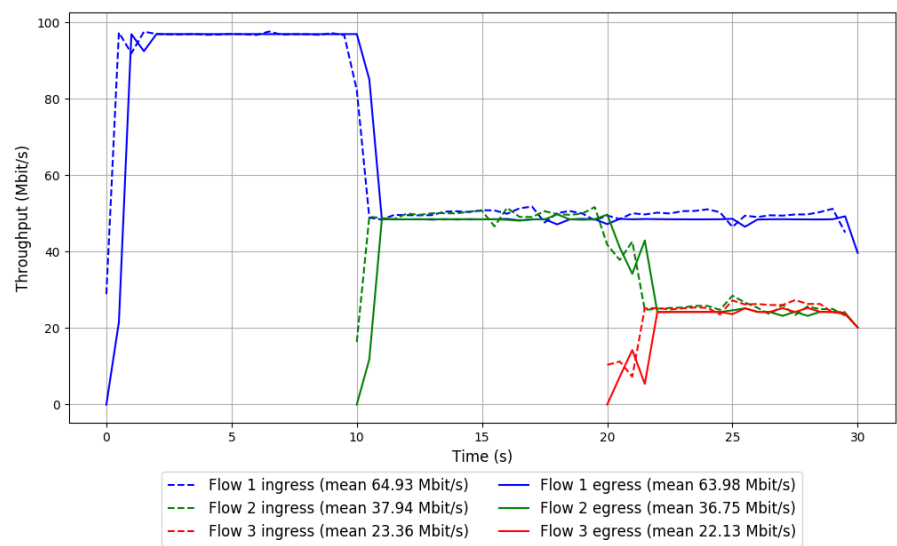
-- Flow 3:

Average throughput: 22.13 Mbit/s

95th percentile per-packet one-way delay: 69.073 ms

Loss rate: 5.87%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-25 07:52:04

End at: 2018-07-25 07:52:34

Local clock offset: 3.41 ms

Remote clock offset: 4.467 ms

Below is generated by plot.py at 2018-07-25 11:32:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.62 Mbit/s

95th percentile per-packet one-way delay: 52.269 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 58.50 Mbit/s

95th percentile per-packet one-way delay: 52.144 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 40.10 Mbit/s

95th percentile per-packet one-way delay: 51.900 ms

Loss rate: 0.62%

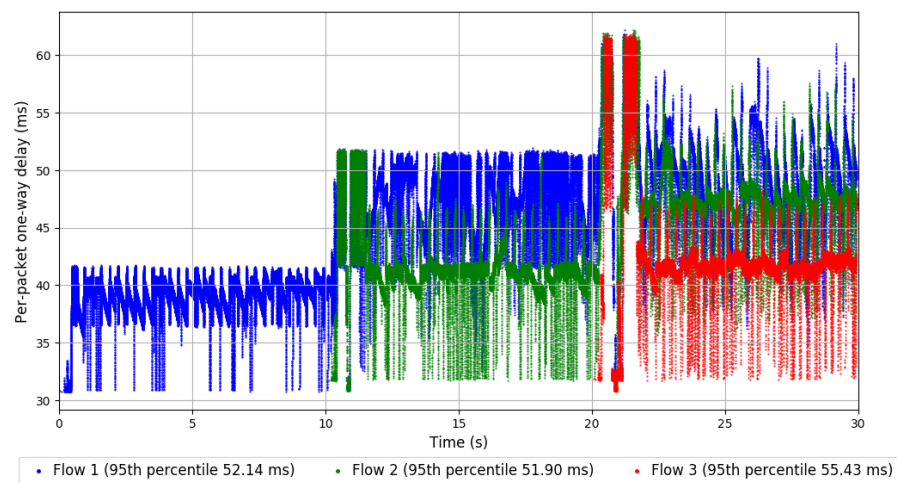
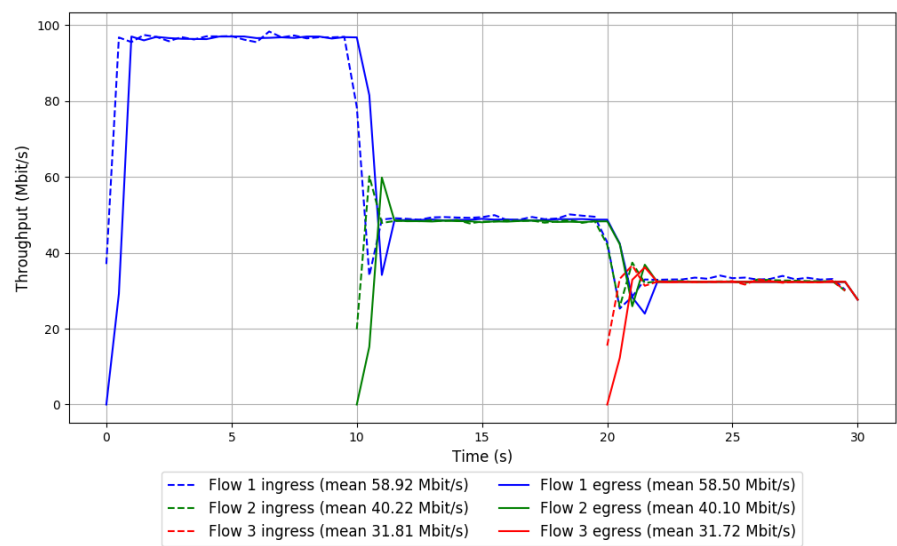
-- Flow 3:

Average throughput: 31.72 Mbit/s

95th percentile per-packet one-way delay: 55.429 ms

Loss rate: 0.95%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-25 08:14:58

End at: 2018-07-25 08:15:28

Local clock offset: 2.891 ms

Remote clock offset: 4.187 ms

Below is generated by plot.py at 2018-07-25 11:32:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 50.850 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 56.51 Mbit/s

95th percentile per-packet one-way delay: 51.816 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 47.38 Mbit/s

95th percentile per-packet one-way delay: 49.882 ms

Loss rate: 0.71%

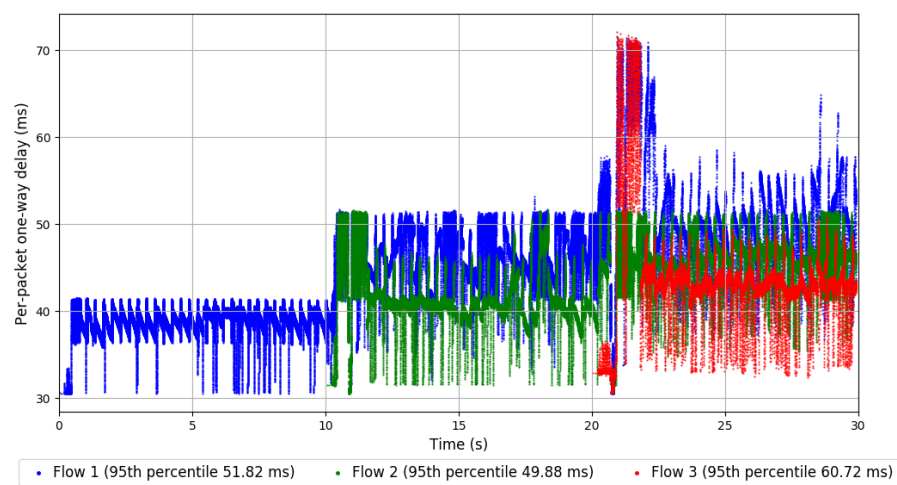
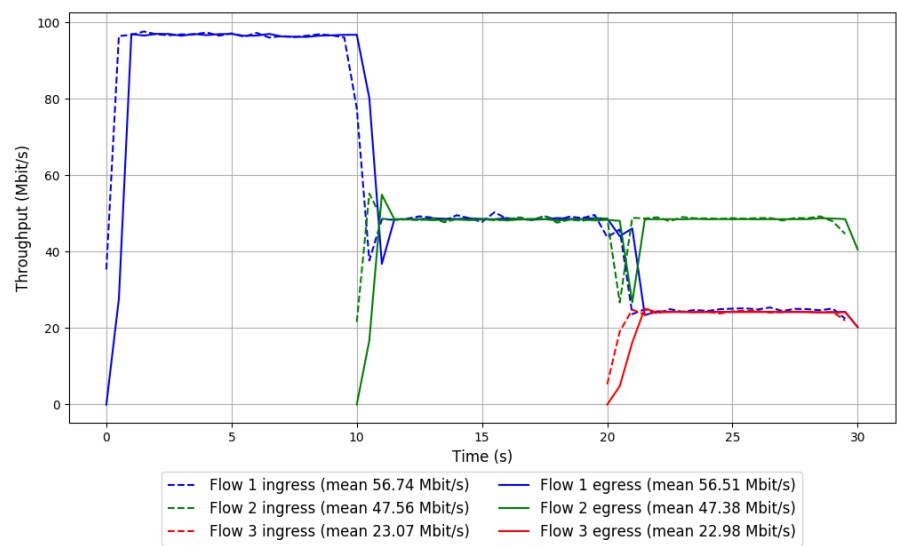
-- Flow 3:

Average throughput: 22.98 Mbit/s

95th percentile per-packet one-way delay: 60.718 ms

Loss rate: 1.05%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-25 08:38:01

End at: 2018-07-25 08:38:31

Local clock offset: 1.091 ms

Remote clock offset: 4.701 ms

Below is generated by plot.py at 2018-07-25 11:32:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.62 Mbit/s

95th percentile per-packet one-way delay: 50.816 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 63.66 Mbit/s

95th percentile per-packet one-way delay: 50.012 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 36.31 Mbit/s

95th percentile per-packet one-way delay: 58.672 ms

Loss rate: 0.74%

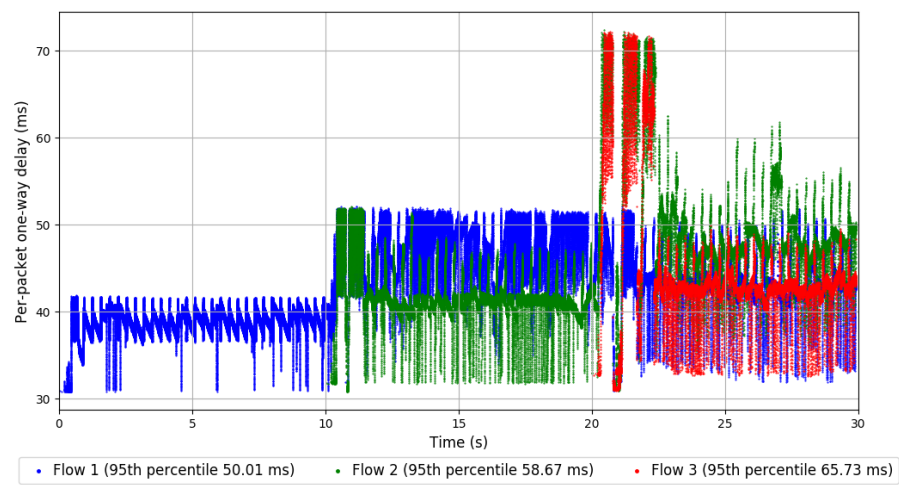
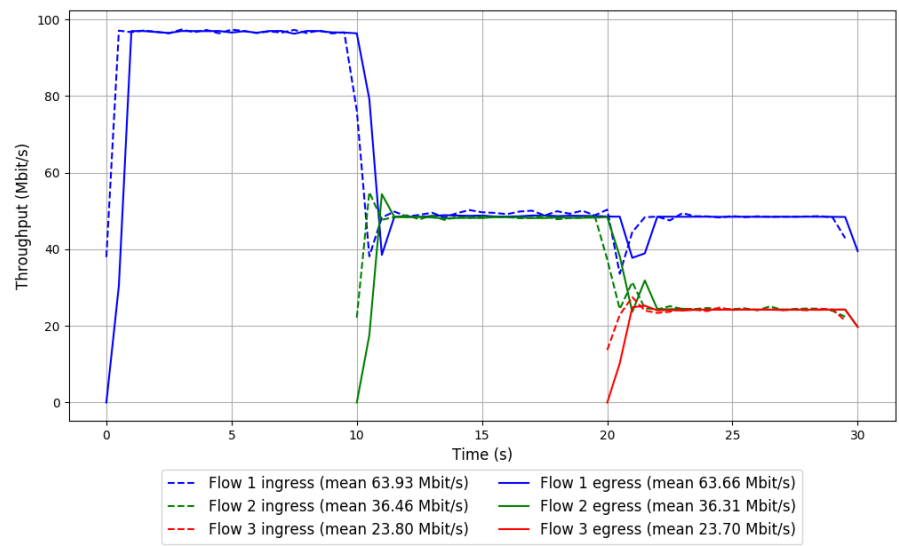
-- Flow 3:

Average throughput: 23.70 Mbit/s

95th percentile per-packet one-way delay: 65.734 ms

Loss rate: 1.04%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-25 09:01:01

End at: 2018-07-25 09:01:31

Local clock offset: -1.096 ms

Remote clock offset: 2.528 ms

Below is generated by plot.py at 2018-07-25 11:33:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 50.723 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 56.13 Mbit/s

95th percentile per-packet one-way delay: 51.861 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 47.43 Mbit/s

95th percentile per-packet one-way delay: 48.713 ms

Loss rate: 0.58%

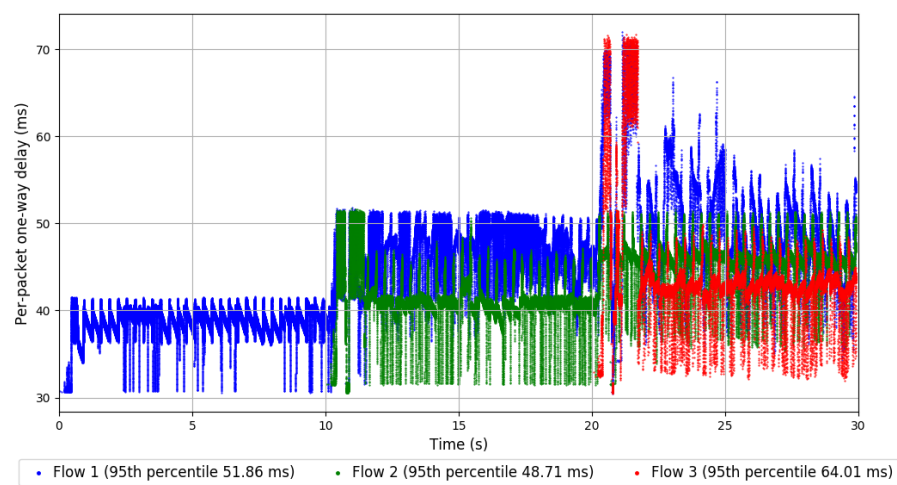
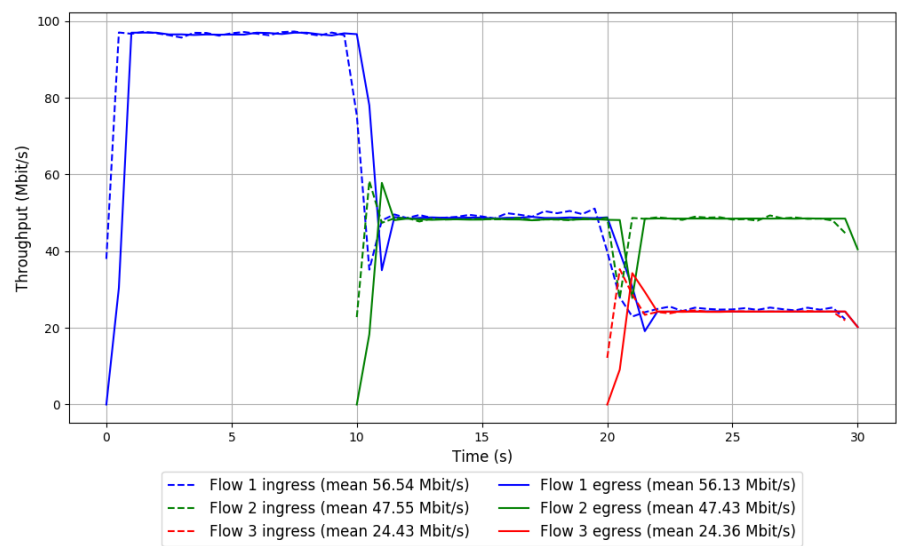
-- Flow 3:

Average throughput: 24.36 Mbit/s

95th percentile per-packet one-way delay: 64.009 ms

Loss rate: 0.96%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-25 09:23:59

End at: 2018-07-25 09:24:29

Local clock offset: 2.88 ms

Remote clock offset: 2.49 ms

Below is generated by plot.py at 2018-07-25 11:33:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.57 Mbit/s

95th percentile per-packet one-way delay: 50.218 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 63.71 Mbit/s

95th percentile per-packet one-way delay: 49.821 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 36.17 Mbit/s

95th percentile per-packet one-way delay: 51.896 ms

Loss rate: 0.62%

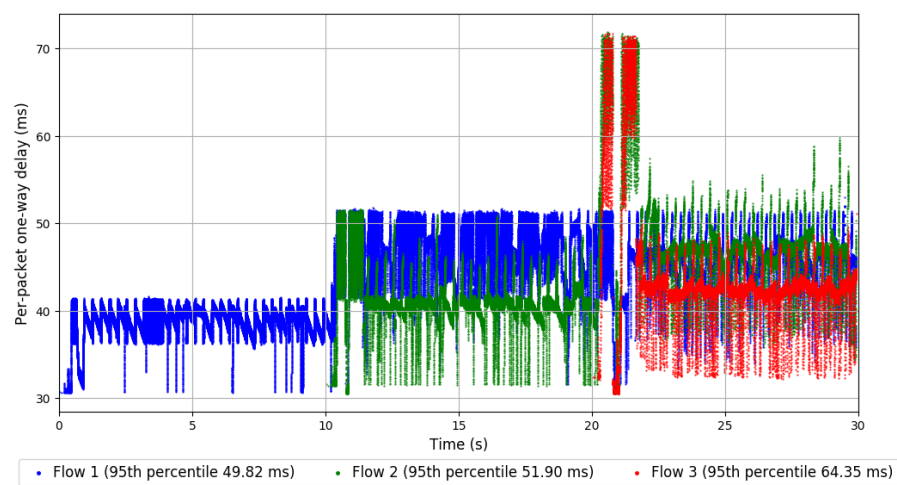
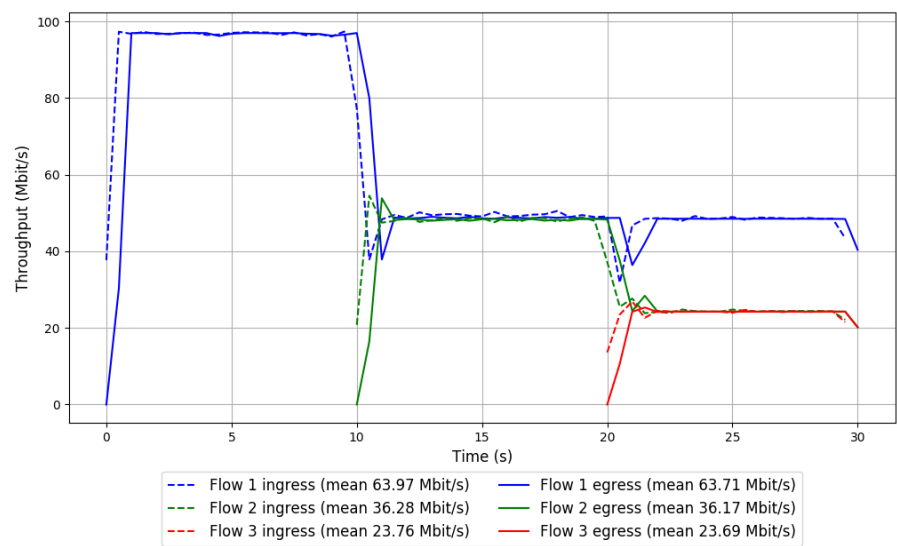
-- Flow 3:

Average throughput: 23.69 Mbit/s

95th percentile per-packet one-way delay: 64.350 ms

Loss rate: 0.92%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-25 09:46:53

End at: 2018-07-25 09:47:23

Local clock offset: 0.219 ms

Remote clock offset: 2.873 ms

Below is generated by plot.py at 2018-07-25 11:33:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.63 Mbit/s

95th percentile per-packet one-way delay: 51.125 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 56.15 Mbit/s

95th percentile per-packet one-way delay: 51.876 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 47.26 Mbit/s

95th percentile per-packet one-way delay: 49.316 ms

Loss rate: 0.66%

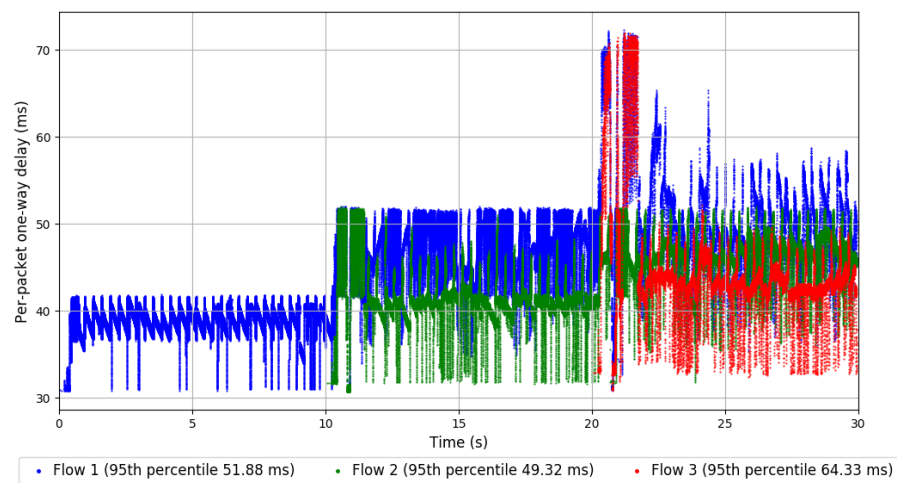
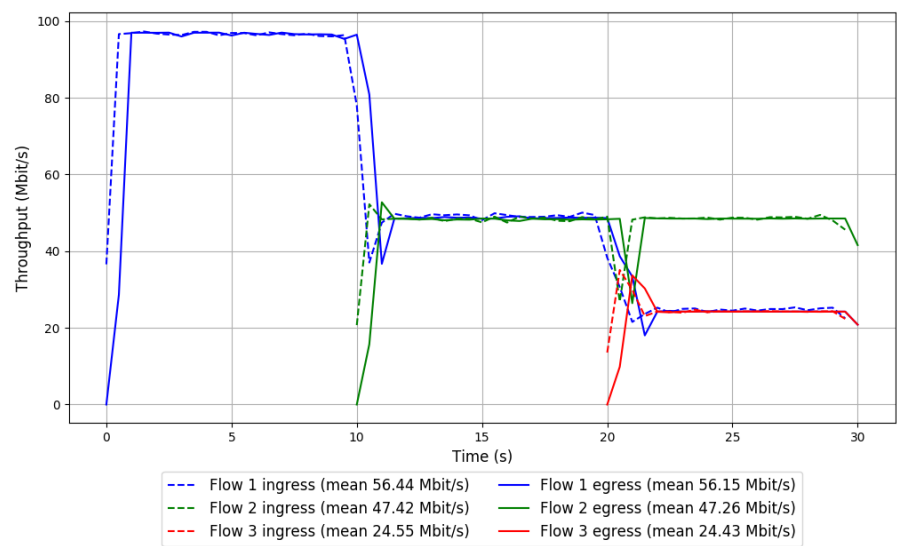
-- Flow 3:

Average throughput: 24.43 Mbit/s

95th percentile per-packet one-way delay: 64.328 ms

Loss rate: 1.16%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-25 10:09:46

End at: 2018-07-25 10:10:16

Local clock offset: -0.314 ms

Remote clock offset: 2.341 ms

Below is generated by plot.py at 2018-07-25 11:34:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 50.673 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 56.20 Mbit/s

95th percentile per-packet one-way delay: 51.087 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 47.23 Mbit/s

95th percentile per-packet one-way delay: 49.032 ms

Loss rate: 0.68%

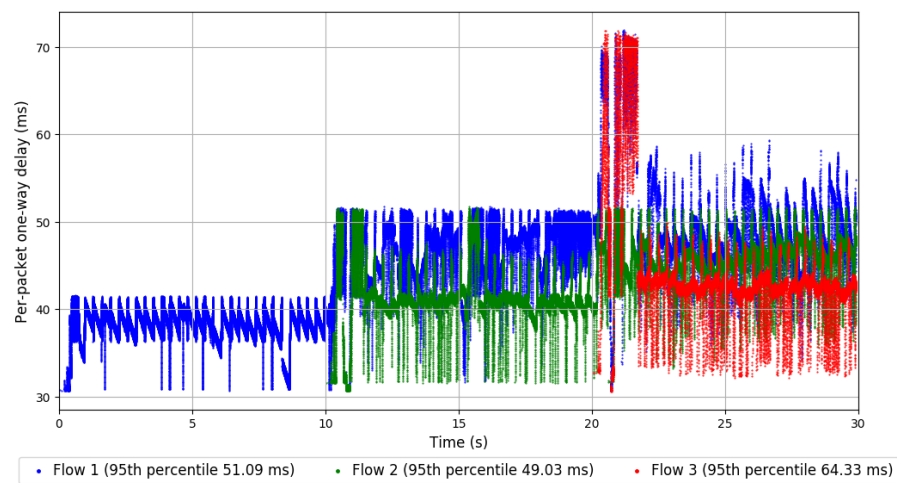
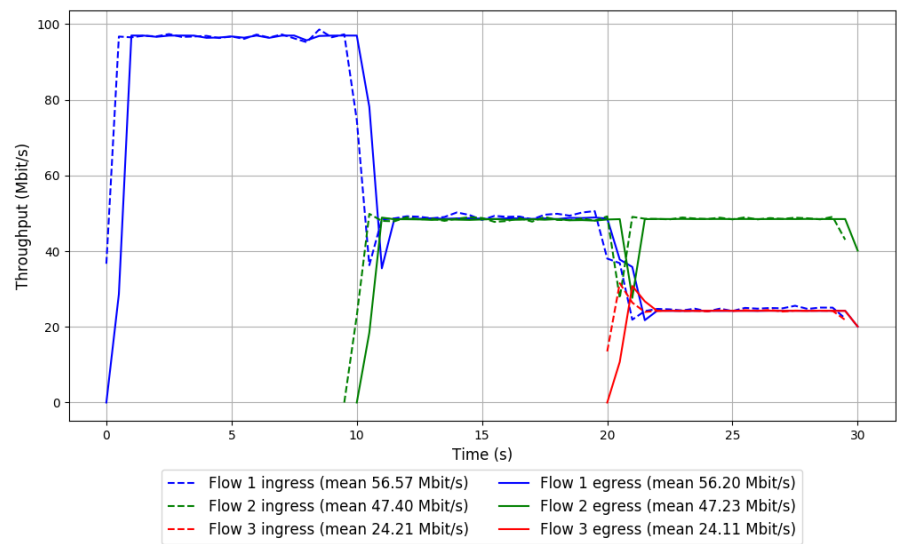
-- Flow 3:

Average throughput: 24.11 Mbit/s

95th percentile per-packet one-way delay: 64.334 ms

Loss rate: 1.06%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-25 10:32:35

End at: 2018-07-25 10:33:05

Local clock offset: -0.29 ms

Remote clock offset: 1.576 ms

Below is generated by plot.py at 2018-07-25 11:34:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 50.365 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 63.68 Mbit/s

95th percentile per-packet one-way delay: 50.081 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 36.13 Mbit/s

95th percentile per-packet one-way delay: 52.618 ms

Loss rate: 0.61%

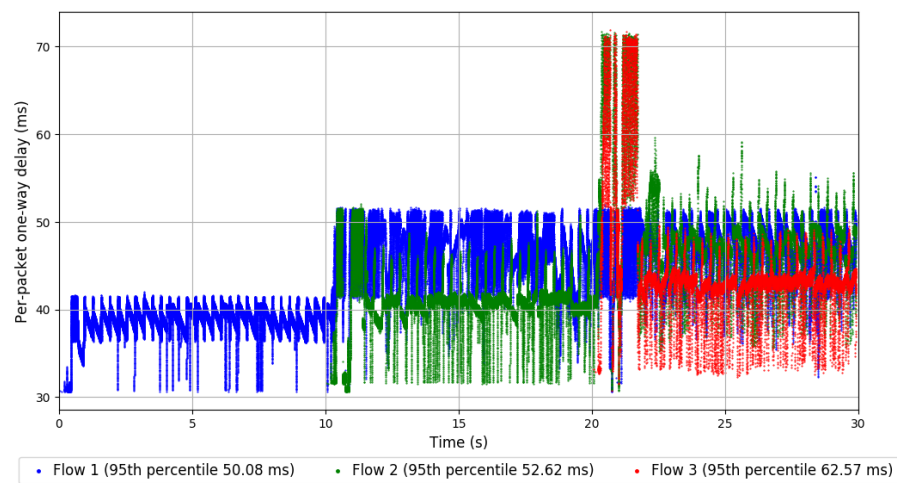
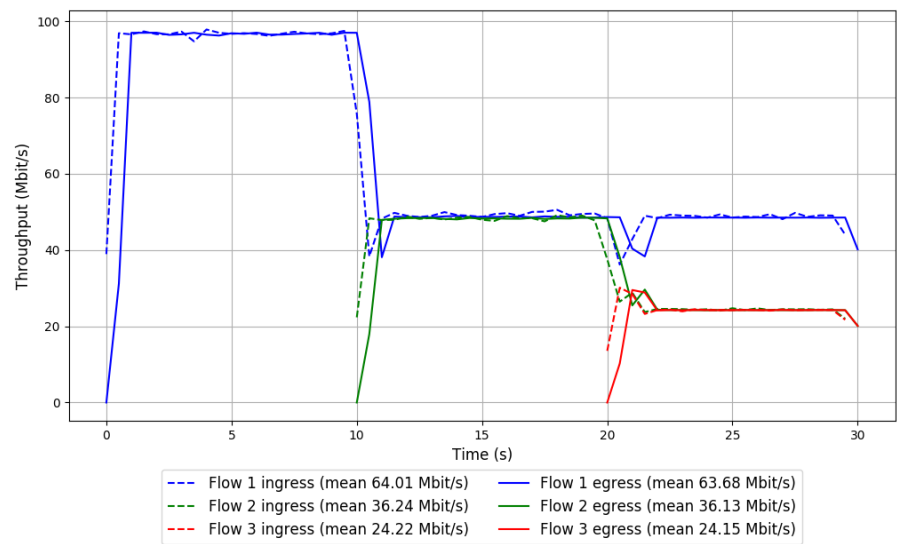
-- Flow 3:

Average throughput: 24.15 Mbit/s

95th percentile per-packet one-way delay: 62.566 ms

Loss rate: 0.96%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-25 10:55:25

End at: 2018-07-25 10:55:55

Local clock offset: 0.039 ms

Remote clock offset: 1.17 ms

Below is generated by plot.py at 2018-07-25 11:34:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.74 Mbit/s

95th percentile per-packet one-way delay: 50.586 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 56.10 Mbit/s

95th percentile per-packet one-way delay: 50.884 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 47.48 Mbit/s

95th percentile per-packet one-way delay: 49.157 ms

Loss rate: 0.60%

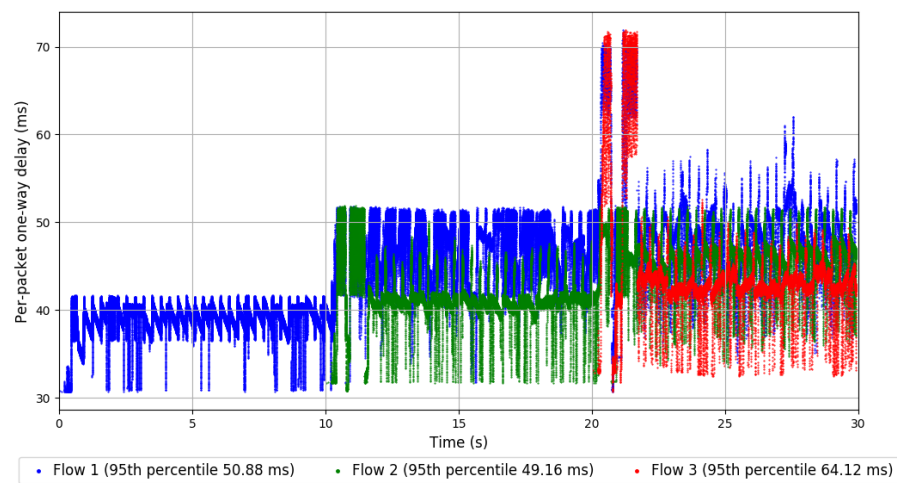
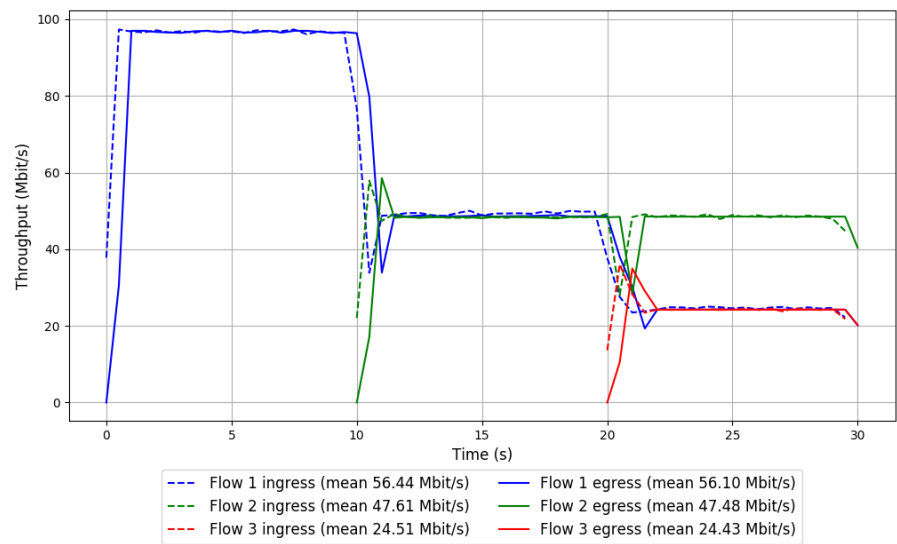
-- Flow 3:

Average throughput: 24.43 Mbit/s

95th percentile per-packet one-way delay: 64.117 ms

Loss rate: 0.99%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-25 11:18:18

End at: 2018-07-25 11:18:48

Local clock offset: 2.917 ms

Remote clock offset: 2.149 ms

Below is generated by plot.py at 2018-07-25 11:34:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.63 Mbit/s

95th percentile per-packet one-way delay: 50.834 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 63.62 Mbit/s

95th percentile per-packet one-way delay: 49.917 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 36.36 Mbit/s

95th percentile per-packet one-way delay: 56.620 ms

Loss rate: 0.79%

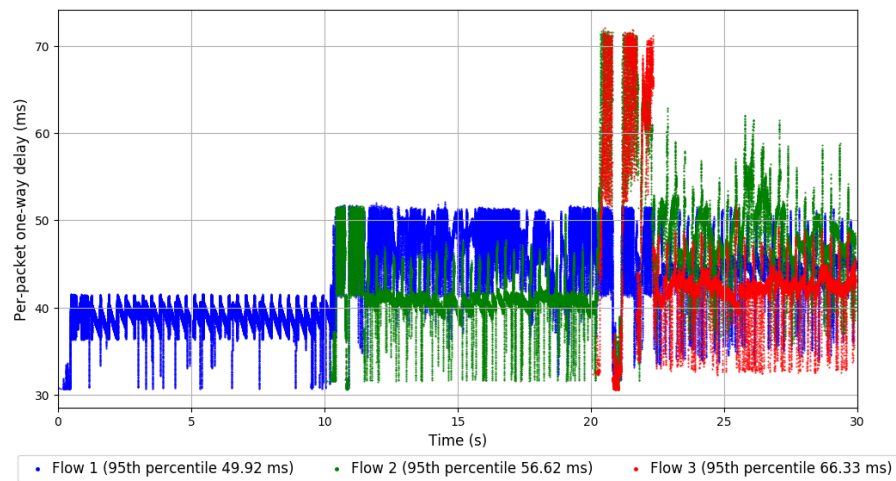
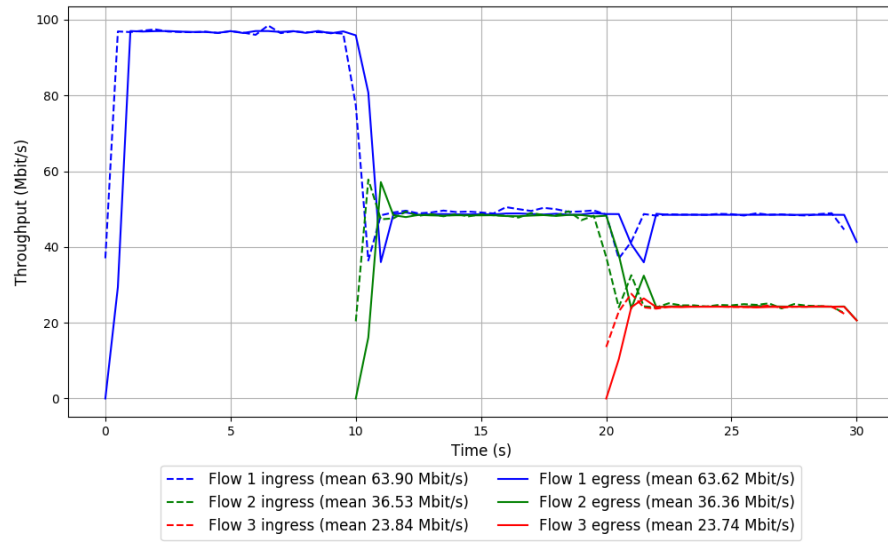
-- Flow 3:

Average throughput: 23.74 Mbit/s

95th percentile per-packet one-way delay: 66.329 ms

Loss rate: 1.09%

Run 10: Report of FillP-Sheep — Data Link

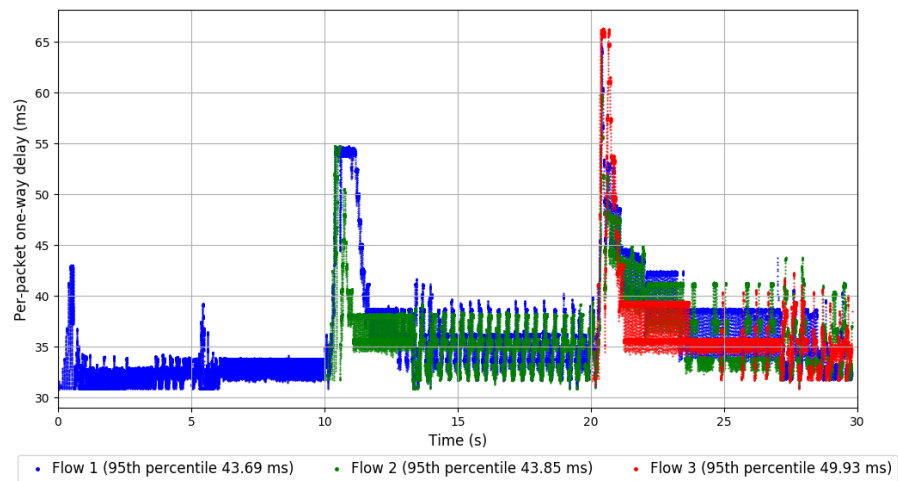
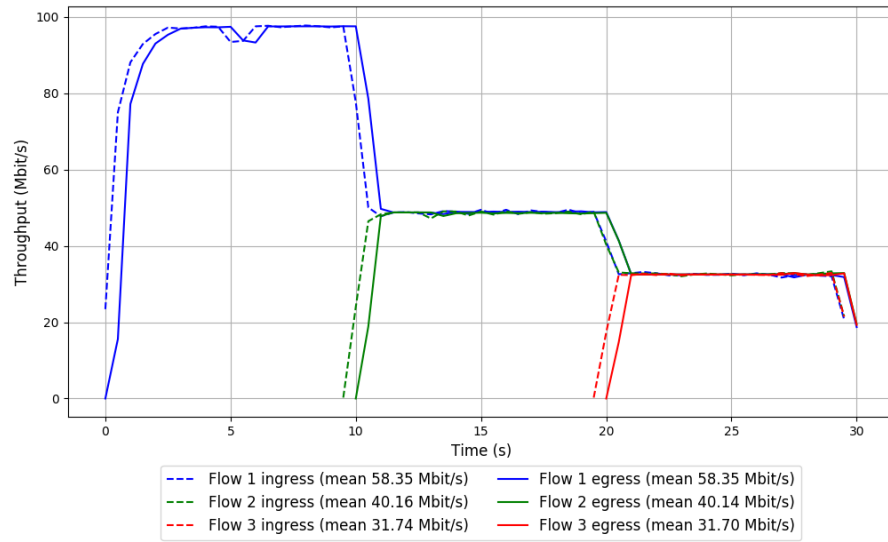


```
Run 1: Statistics of Indigo

Start at: 2018-07-25 07:34:22
End at: 2018-07-25 07:34:52
Local clock offset: 3.189 ms
Remote clock offset: 3.127 ms

# Below is generated by plot.py at 2018-07-25 11:34:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.44 Mbit/s
95th percentile per-packet one-way delay: 44.027 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 58.35 Mbit/s
95th percentile per-packet one-way delay: 43.685 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 40.14 Mbit/s
95th percentile per-packet one-way delay: 43.855 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 31.70 Mbit/s
95th percentile per-packet one-way delay: 49.927 ms
Loss rate: 0.77%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-25 07:57:22

End at: 2018-07-25 07:57:52

Local clock offset: 3.296 ms

Remote clock offset: 5.128 ms

Below is generated by plot.py at 2018-07-25 11:34:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 43.034 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 59.12 Mbit/s

95th percentile per-packet one-way delay: 44.009 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 40.02 Mbit/s

95th percentile per-packet one-way delay: 42.599 ms

Loss rate: 0.32%

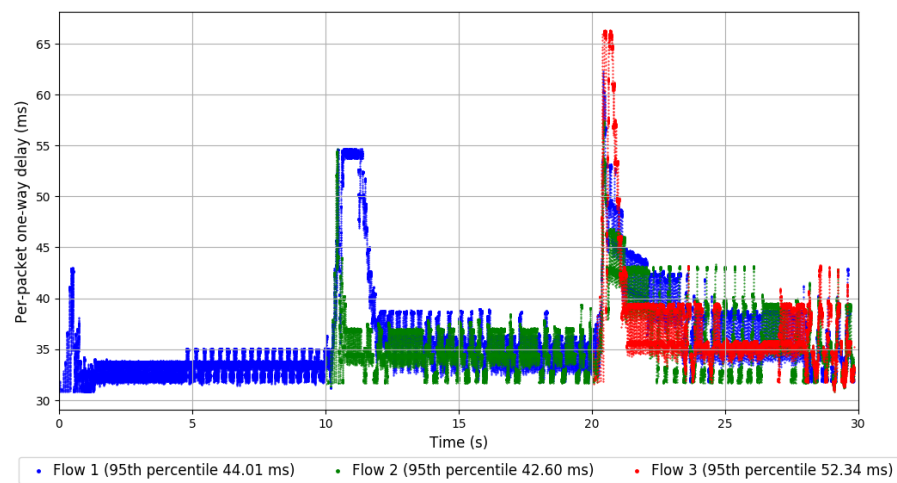
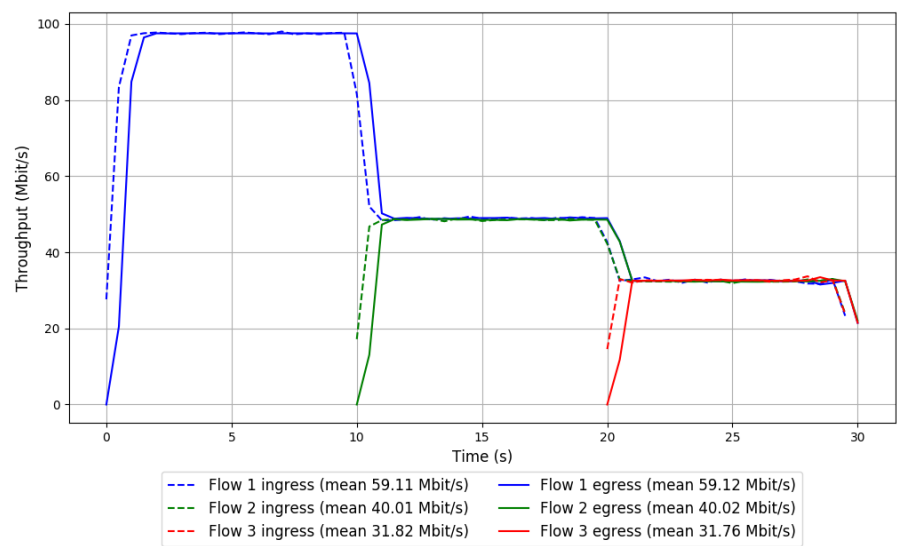
-- Flow 3:

Average throughput: 31.76 Mbit/s

95th percentile per-packet one-way delay: 52.342 ms

Loss rate: 0.82%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-25 08:20:16

End at: 2018-07-25 08:20:46

Local clock offset: 2.899 ms

Remote clock offset: 3.914 ms

Below is generated by plot.py at 2018-07-25 11:34:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 39.617 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 56.63 Mbit/s

95th percentile per-packet one-way delay: 46.270 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 47.92 Mbit/s

95th percentile per-packet one-way delay: 36.327 ms

Loss rate: 0.35%

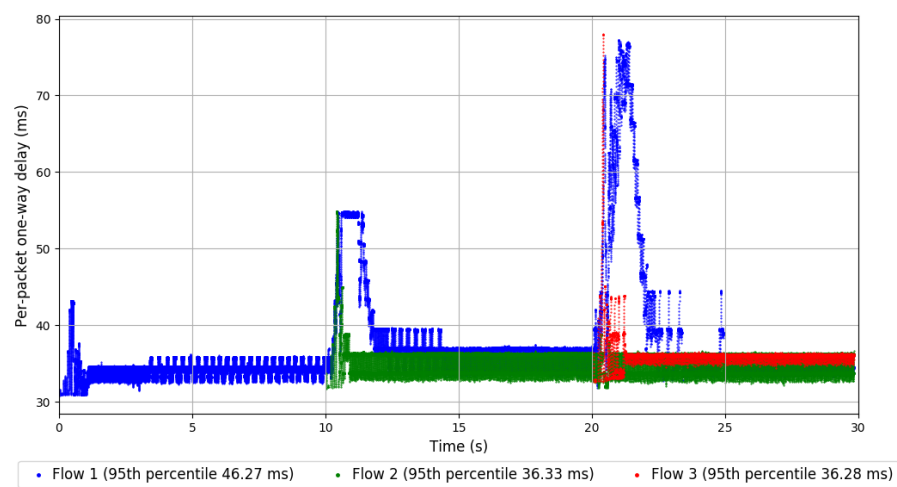
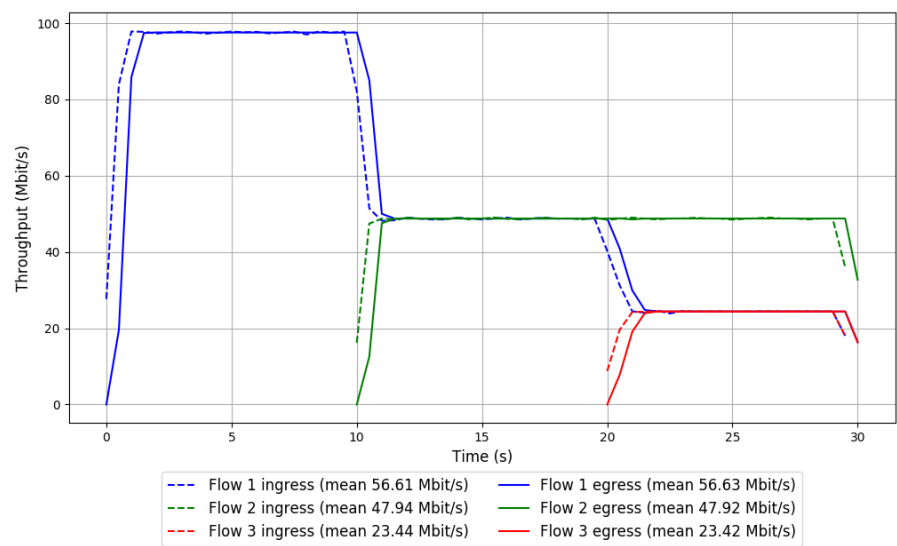
-- Flow 3:

Average throughput: 23.42 Mbit/s

95th percentile per-packet one-way delay: 36.278 ms

Loss rate: 0.74%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-25 08:43:21

End at: 2018-07-25 08:43:51

Local clock offset: 0.254 ms

Remote clock offset: 3.79 ms

Below is generated by plot.py at 2018-07-25 11:34:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.15 Mbit/s

95th percentile per-packet one-way delay: 44.518 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 59.17 Mbit/s

95th percentile per-packet one-way delay: 44.555 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 40.00 Mbit/s

95th percentile per-packet one-way delay: 43.697 ms

Loss rate: 0.43%

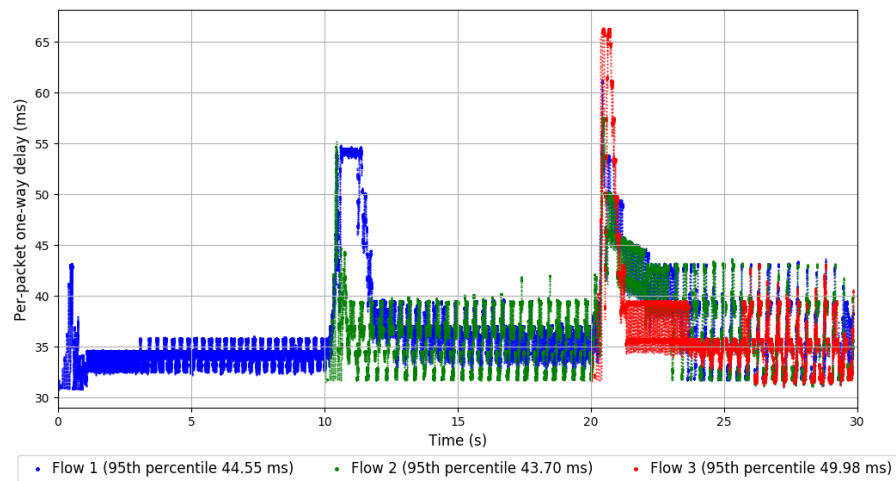
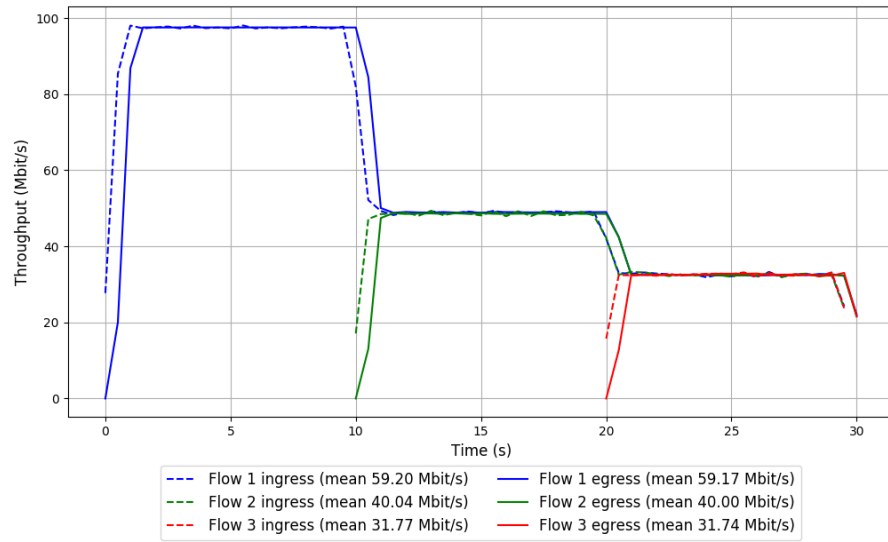
-- Flow 3:

Average throughput: 31.74 Mbit/s

95th percentile per-packet one-way delay: 49.985 ms

Loss rate: 0.77%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-25 09:06:19

End at: 2018-07-25 09:06:49

Local clock offset: 0.774 ms

Remote clock offset: 2.576 ms

Below is generated by plot.py at 2018-07-25 11:35:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.87 Mbit/s

95th percentile per-packet one-way delay: 41.099 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 63.94 Mbit/s

95th percentile per-packet one-way delay: 38.320 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 36.19 Mbit/s

95th percentile per-packet one-way delay: 43.586 ms

Loss rate: 0.38%

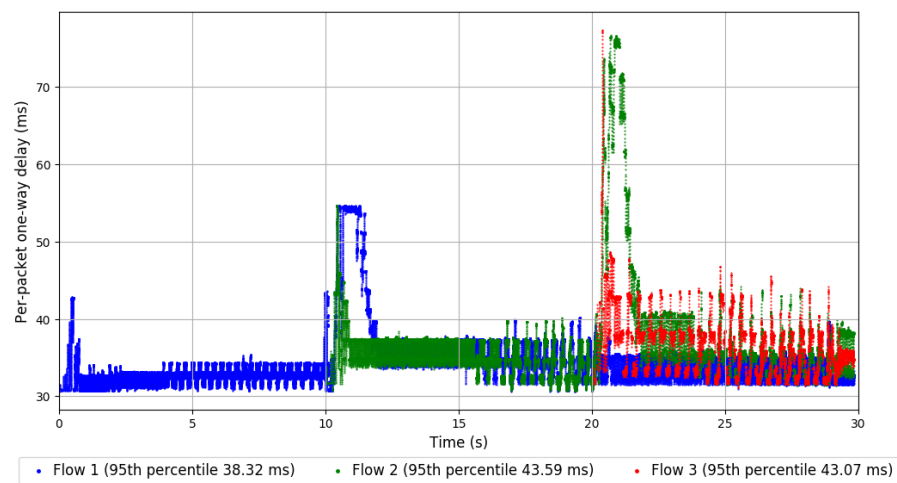
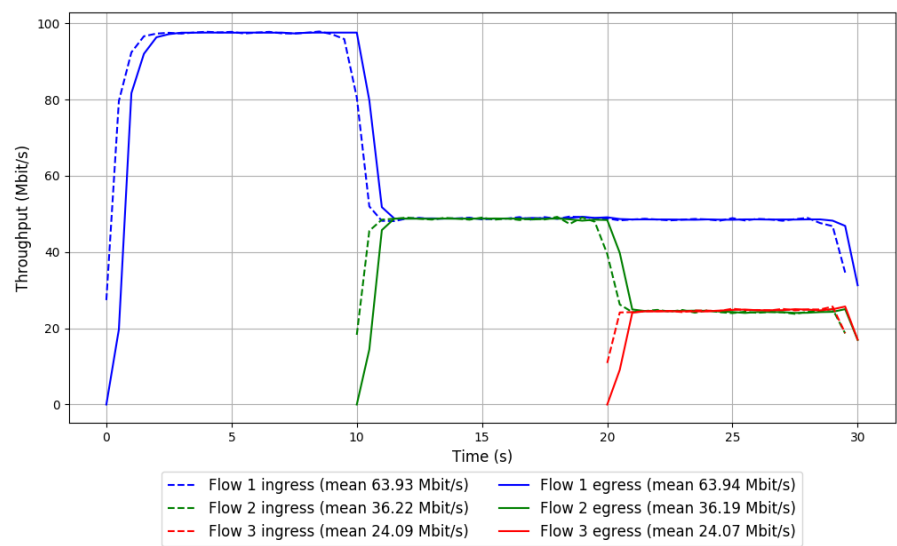
-- Flow 3:

Average throughput: 24.07 Mbit/s

95th percentile per-packet one-way delay: 43.074 ms

Loss rate: 0.77%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-25 09:29:17

End at: 2018-07-25 09:29:47

Local clock offset: 3.067 ms

Remote clock offset: 2.447 ms

Below is generated by plot.py at 2018-07-25 11:35:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 44.806 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 59.07 Mbit/s

95th percentile per-packet one-way delay: 44.020 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 40.13 Mbit/s

95th percentile per-packet one-way delay: 52.878 ms

Loss rate: 0.41%

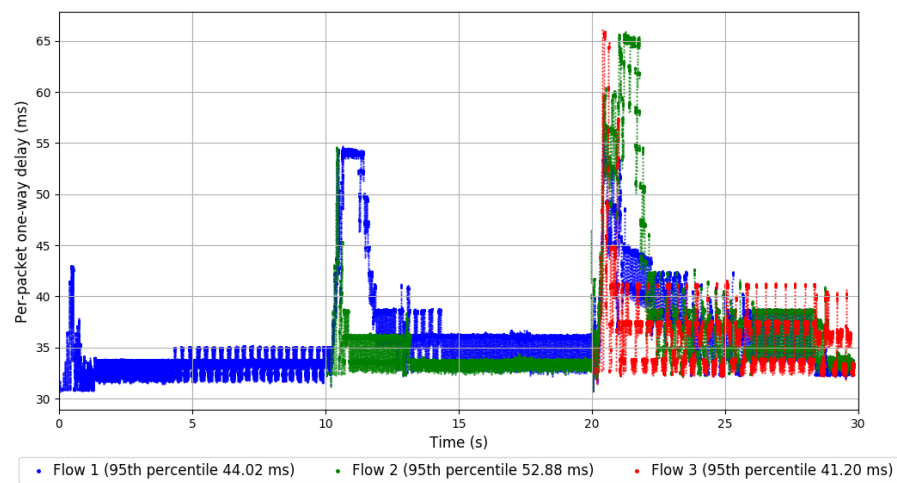
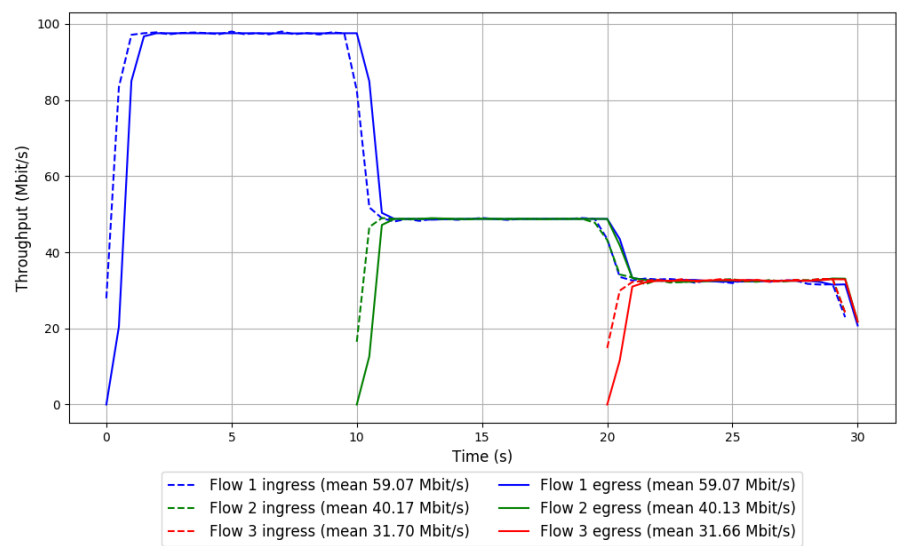
-- Flow 3:

Average throughput: 31.66 Mbit/s

95th percentile per-packet one-way delay: 41.203 ms

Loss rate: 0.81%

Run 6: Report of Indigo — Data Link

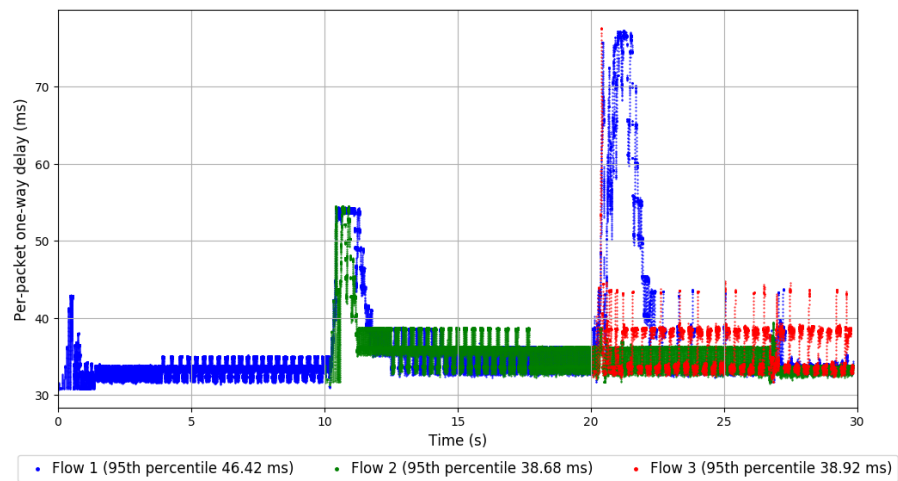
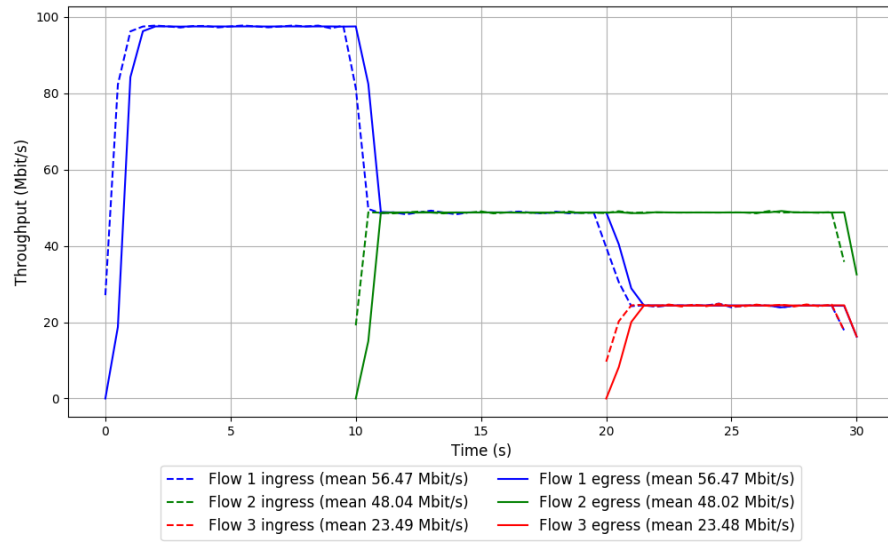


Run 7: Statistics of Indigo

Start at: 2018-07-25 09:52:11
End at: 2018-07-25 09:52:41
Local clock offset: -0.244 ms
Remote clock offset: 2.602 ms

```
# Below is generated by plot.py at 2018-07-25 11:35:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.06 Mbit/s
95th percentile per-packet one-way delay: 42.435 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 56.47 Mbit/s
95th percentile per-packet one-way delay: 46.424 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 48.02 Mbit/s
95th percentile per-packet one-way delay: 38.682 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 23.48 Mbit/s
95th percentile per-packet one-way delay: 38.919 ms
Loss rate: 0.72%
```


Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-25 10:15:04

End at: 2018-07-25 10:15:34

Local clock offset: -0.176 ms

Remote clock offset: 2.412 ms

Below is generated by plot.py at 2018-07-25 11:35:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 44.030 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 58.85 Mbit/s

95th percentile per-packet one-way delay: 44.356 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 40.05 Mbit/s

95th percentile per-packet one-way delay: 43.460 ms

Loss rate: 0.41%

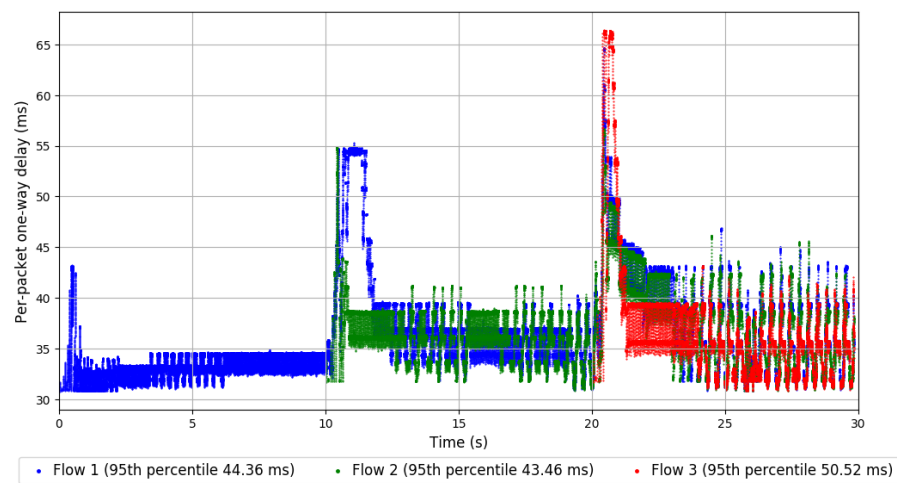
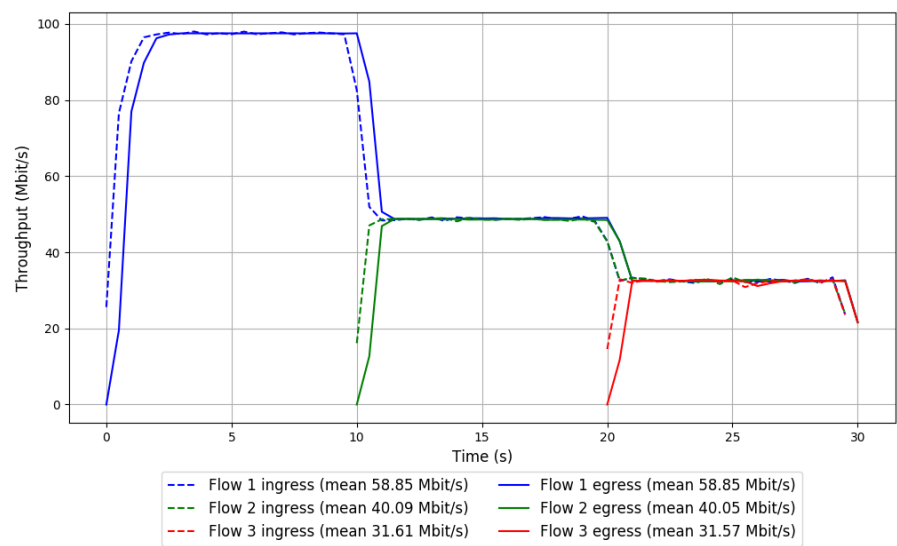
-- Flow 3:

Average throughput: 31.57 Mbit/s

95th percentile per-packet one-way delay: 50.521 ms

Loss rate: 0.79%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-25 10:37:52

End at: 2018-07-25 10:38:22

Local clock offset: -0.081 ms

Remote clock offset: 1.358 ms

Below is generated by plot.py at 2018-07-25 11:35:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 44.211 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 59.08 Mbit/s

95th percentile per-packet one-way delay: 44.730 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 40.13 Mbit/s

95th percentile per-packet one-way delay: 43.379 ms

Loss rate: 0.38%

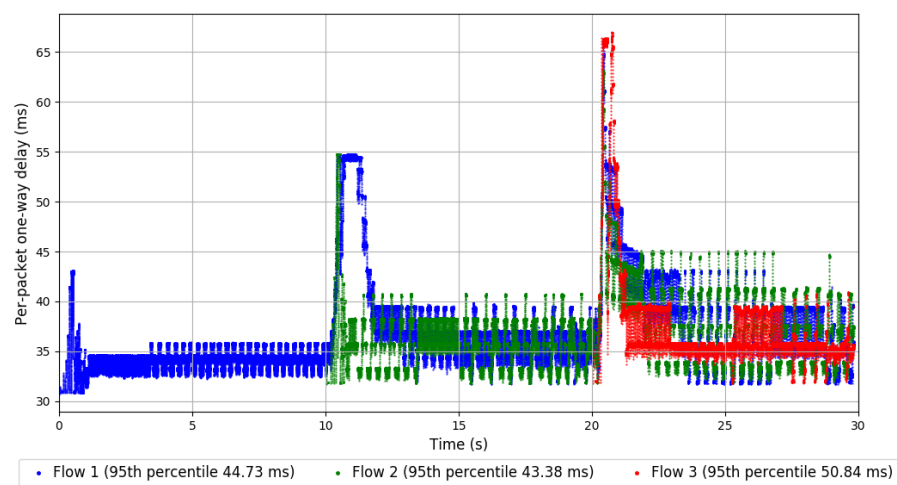
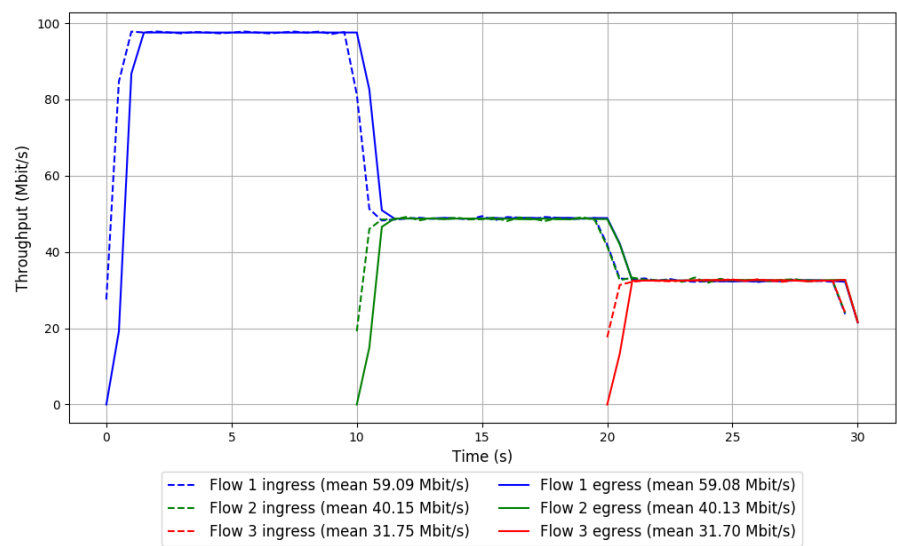
-- Flow 3:

Average throughput: 31.70 Mbit/s

95th percentile per-packet one-way delay: 50.842 ms

Loss rate: 0.78%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-25 11:00:42

End at: 2018-07-25 11:01:12

Local clock offset: -0.002 ms

Remote clock offset: 1.507 ms

Below is generated by plot.py at 2018-07-25 11:35:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.77 Mbit/s

95th percentile per-packet one-way delay: 43.778 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 56.36 Mbit/s

95th percentile per-packet one-way delay: 44.139 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 36.12 Mbit/s

95th percentile per-packet one-way delay: 44.478 ms

Loss rate: 0.33%

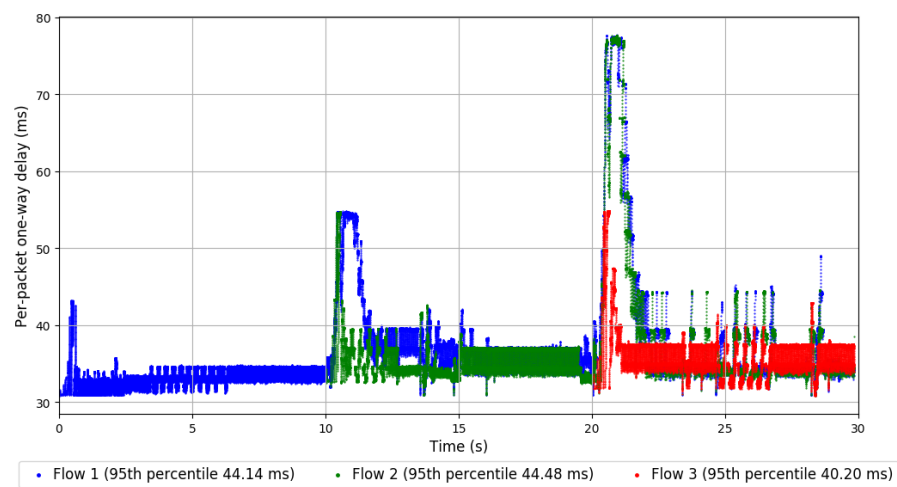
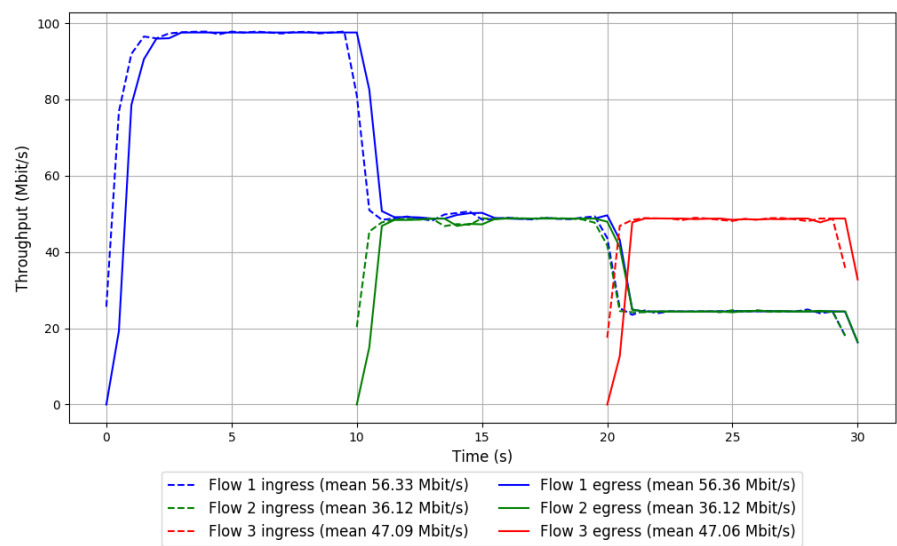
-- Flow 3:

Average throughput: 47.06 Mbit/s

95th percentile per-packet one-way delay: 40.198 ms

Loss rate: 0.73%

Run 10: Report of Indigo — Data Link

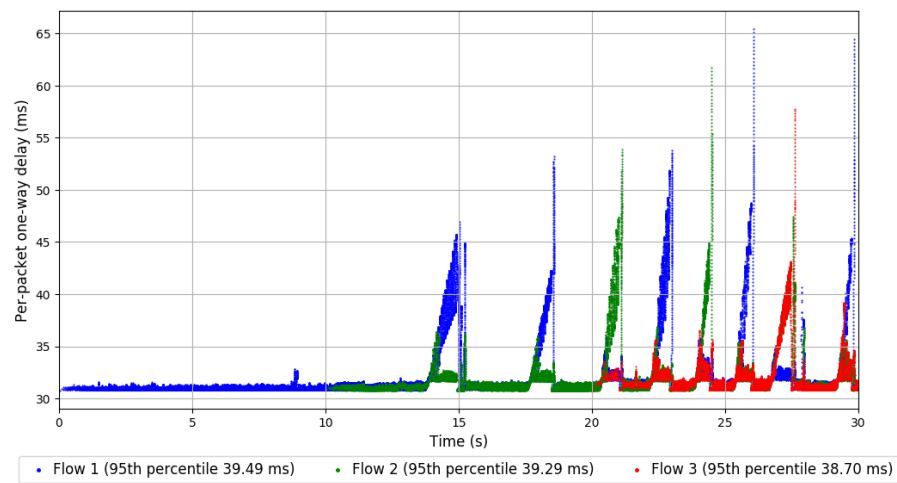
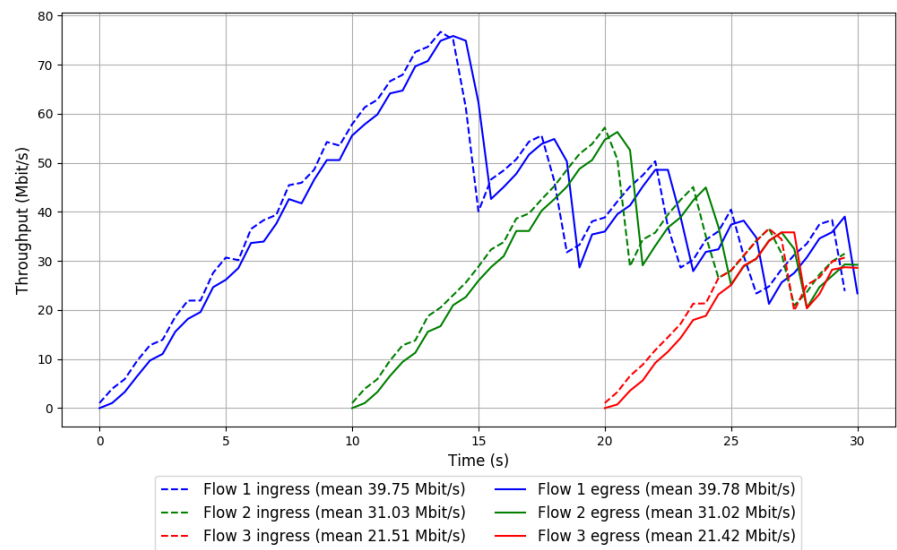


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-25 07:43:52
End at: 2018-07-25 07:44:22
Local clock offset: 3.339 ms
Remote clock offset: 3.638 ms

# Below is generated by plot.py at 2018-07-25 11:35:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.52 Mbit/s
95th percentile per-packet one-way delay: 39.305 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 39.78 Mbit/s
95th percentile per-packet one-way delay: 39.486 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 31.02 Mbit/s
95th percentile per-packet one-way delay: 39.293 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 21.42 Mbit/s
95th percentile per-packet one-way delay: 38.697 ms
Loss rate: 1.03%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-25 08:06:47

End at: 2018-07-25 08:07:17

Local clock offset: 3.077 ms

Remote clock offset: 5.862 ms

Below is generated by plot.py at 2018-07-25 11:35:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.93 Mbit/s

95th percentile per-packet one-way delay: 38.821 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 42.75 Mbit/s

95th percentile per-packet one-way delay: 38.196 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 27.84 Mbit/s

95th percentile per-packet one-way delay: 40.269 ms

Loss rate: 0.28%

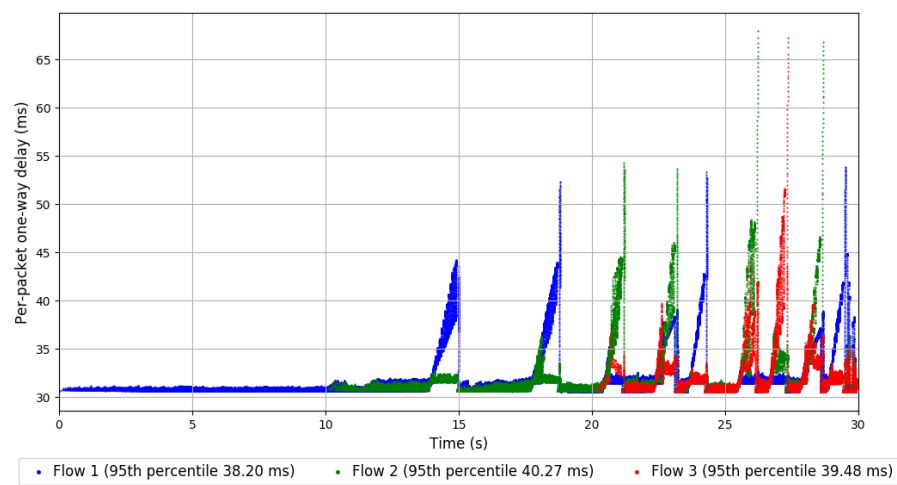
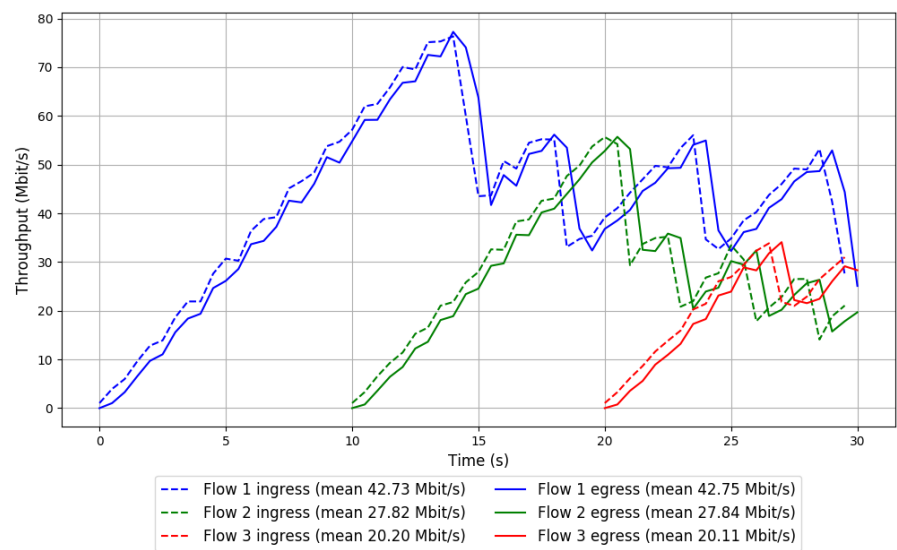
-- Flow 3:

Average throughput: 20.11 Mbit/s

95th percentile per-packet one-way delay: 39.484 ms

Loss rate: 1.08%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-25 08:29:49

End at: 2018-07-25 08:30:19

Local clock offset: 2.751 ms

Remote clock offset: 4.257 ms

Below is generated by plot.py at 2018-07-25 11:36:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.65 Mbit/s

95th percentile per-packet one-way delay: 40.071 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 40.05 Mbit/s

95th percentile per-packet one-way delay: 38.255 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 30.92 Mbit/s

95th percentile per-packet one-way delay: 44.752 ms

Loss rate: 0.29%

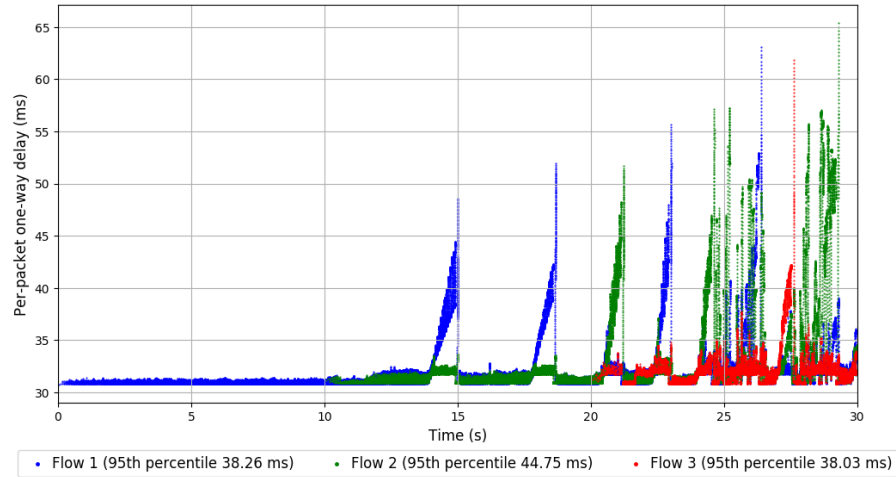
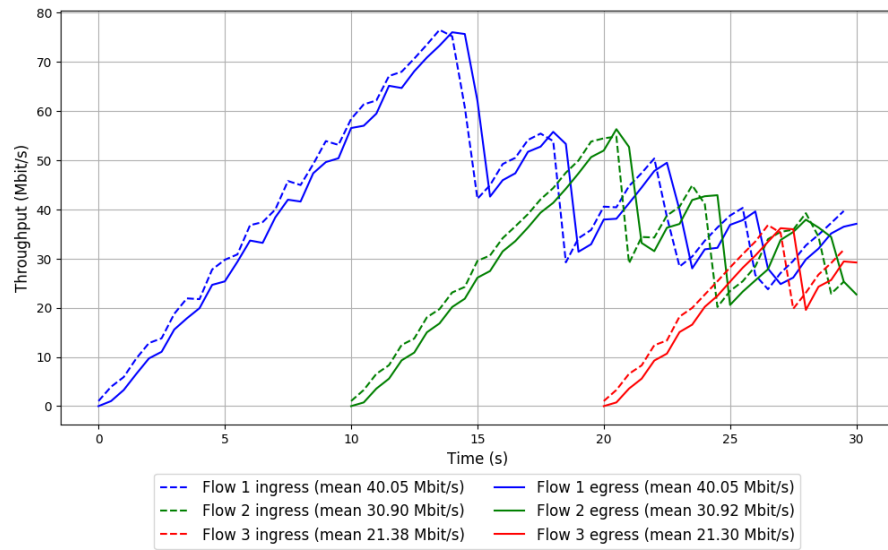
-- Flow 3:

Average throughput: 21.30 Mbit/s

95th percentile per-packet one-way delay: 38.031 ms

Loss rate: 1.03%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-25 08:52:50

End at: 2018-07-25 08:53:20

Local clock offset: -0.591 ms

Remote clock offset: 2.691 ms

Below is generated by plot.py at 2018-07-25 11:36:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.92 Mbit/s

95th percentile per-packet one-way delay: 38.300 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 38.76 Mbit/s

95th percentile per-packet one-way delay: 37.822 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 29.86 Mbit/s

95th percentile per-packet one-way delay: 39.485 ms

Loss rate: 0.41%

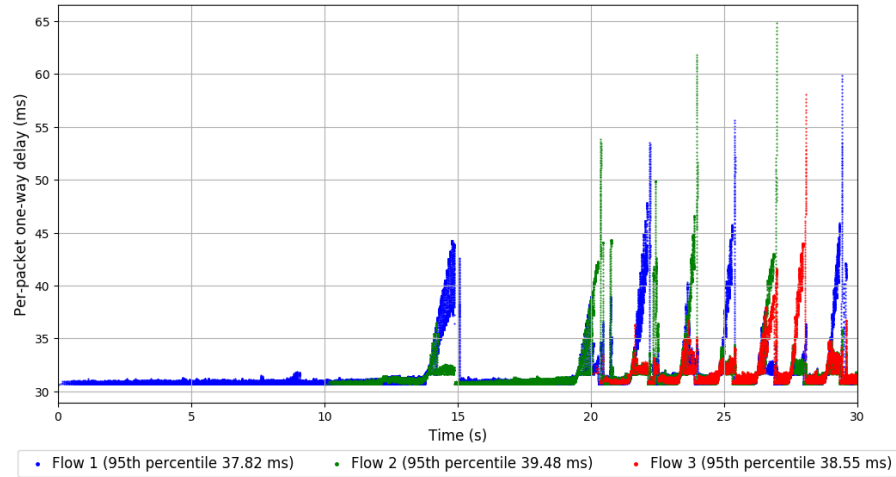
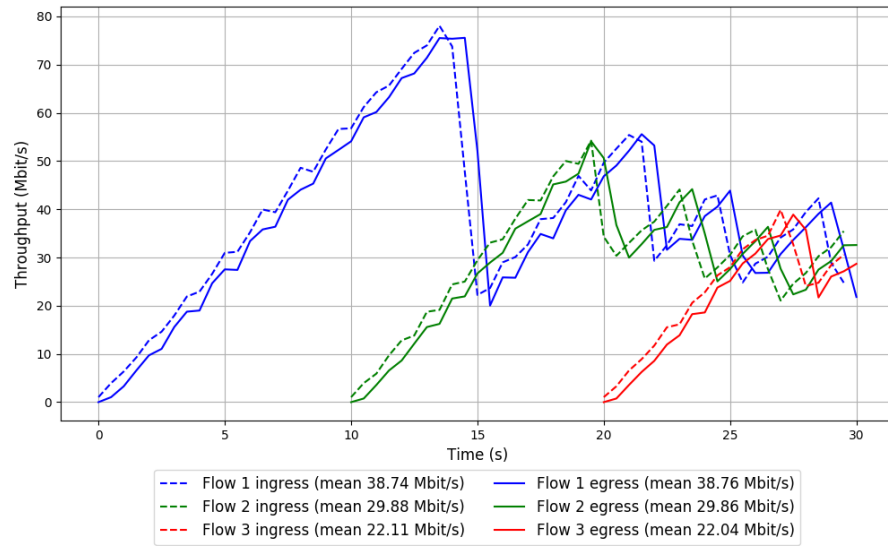
-- Flow 3:

Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 38.548 ms

Loss rate: 0.97%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-25 09:15:47

End at: 2018-07-25 09:16:17

Local clock offset: 2.411 ms

Remote clock offset: 2.758 ms

Below is generated by plot.py at 2018-07-25 11:36:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.85 Mbit/s

95th percentile per-packet one-way delay: 37.966 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 41.13 Mbit/s

95th percentile per-packet one-way delay: 37.850 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 27.25 Mbit/s

95th percentile per-packet one-way delay: 37.954 ms

Loss rate: 0.46%

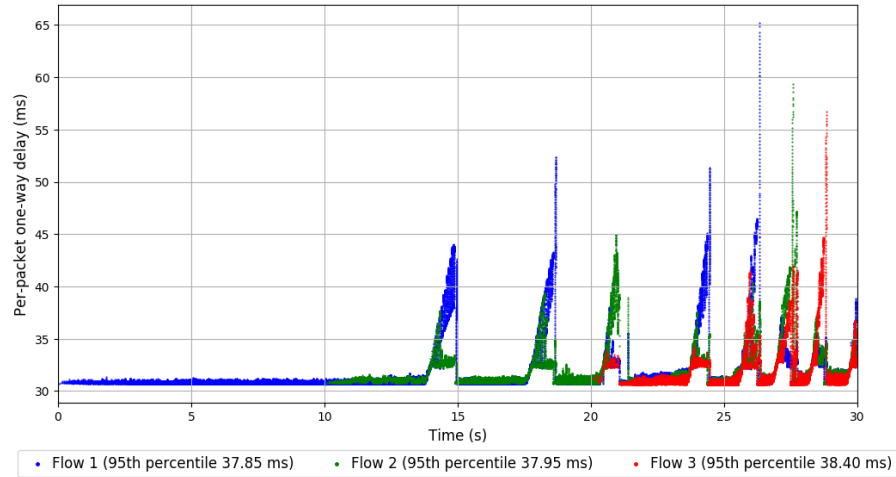
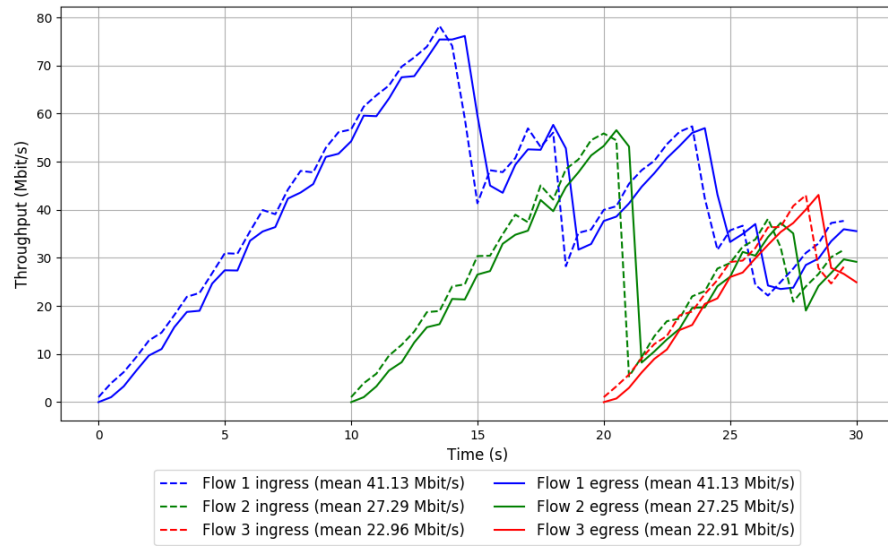
-- Flow 3:

Average throughput: 22.91 Mbit/s

95th percentile per-packet one-way delay: 38.399 ms

Loss rate: 0.85%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-25 09:38:43

End at: 2018-07-25 09:39:13

Local clock offset: 1.282 ms

Remote clock offset: 2.694 ms

Below is generated by plot.py at 2018-07-25 11:36:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.55 Mbit/s

95th percentile per-packet one-way delay: 39.190 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 39.95 Mbit/s

95th percentile per-packet one-way delay: 39.194 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 31.05 Mbit/s

95th percentile per-packet one-way delay: 39.785 ms

Loss rate: 0.36%

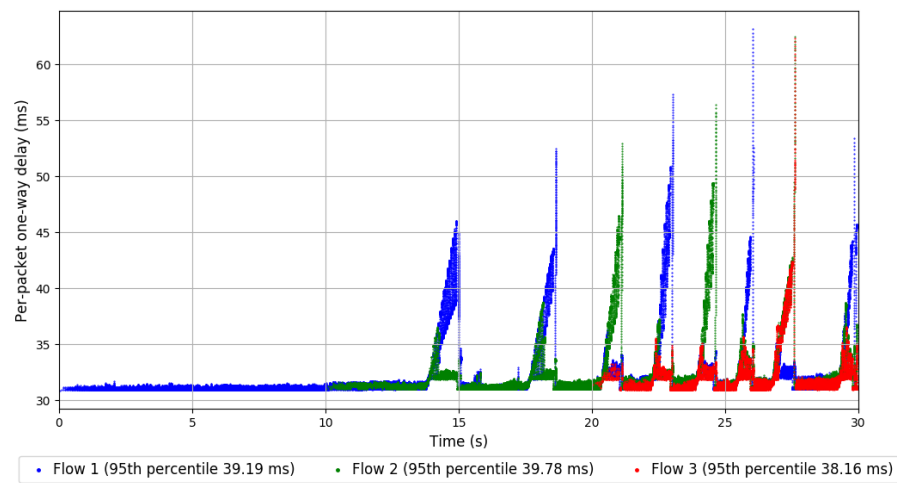
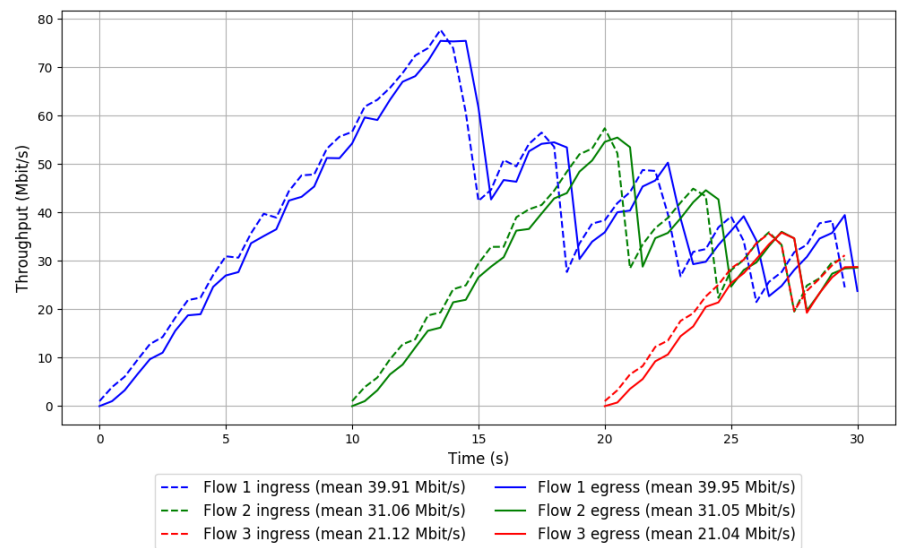
-- Flow 3:

Average throughput: 21.04 Mbit/s

95th percentile per-packet one-way delay: 38.163 ms

Loss rate: 1.04%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-25 10:01:36

End at: 2018-07-25 10:02:06

Local clock offset: -0.685 ms

Remote clock offset: 2.387 ms

Below is generated by plot.py at 2018-07-25 11:36:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.64 Mbit/s

95th percentile per-packet one-way delay: 39.899 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 40.98 Mbit/s

95th percentile per-packet one-way delay: 37.571 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 28.47 Mbit/s

95th percentile per-packet one-way delay: 43.629 ms

Loss rate: 0.43%

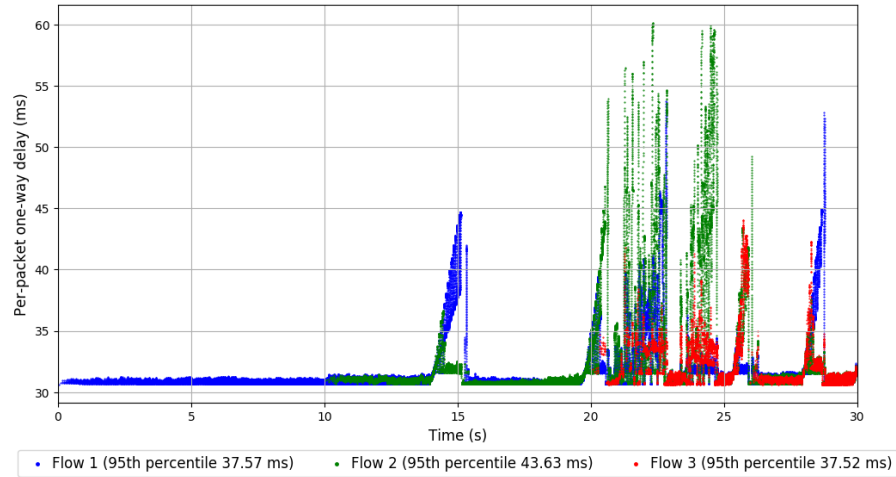
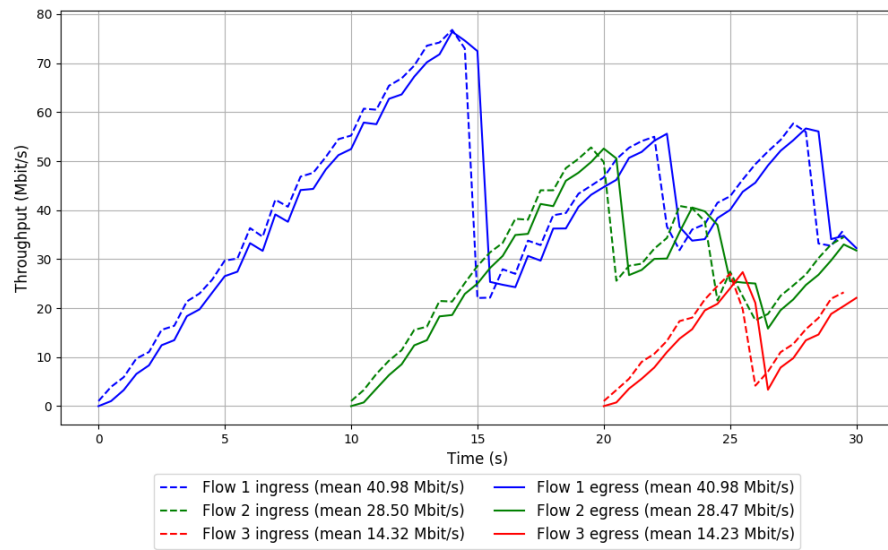
-- Flow 3:

Average throughput: 14.23 Mbit/s

95th percentile per-packet one-way delay: 37.518 ms

Loss rate: 1.27%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-25 10:24:27

End at: 2018-07-25 10:24:57

Local clock offset: -0.323 ms

Remote clock offset: 2.264 ms

Below is generated by plot.py at 2018-07-25 11:36:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.21 Mbit/s

95th percentile per-packet one-way delay: 38.446 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 38.24 Mbit/s

95th percentile per-packet one-way delay: 38.908 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 37.566 ms

Loss rate: 0.47%

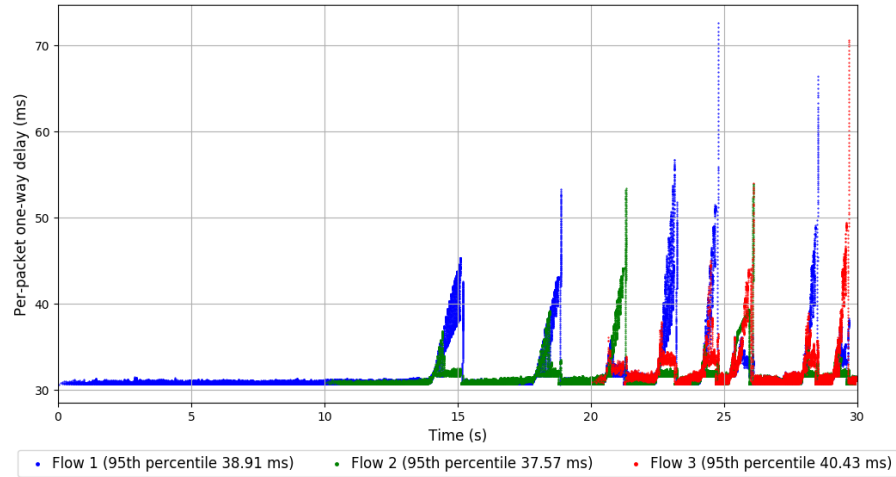
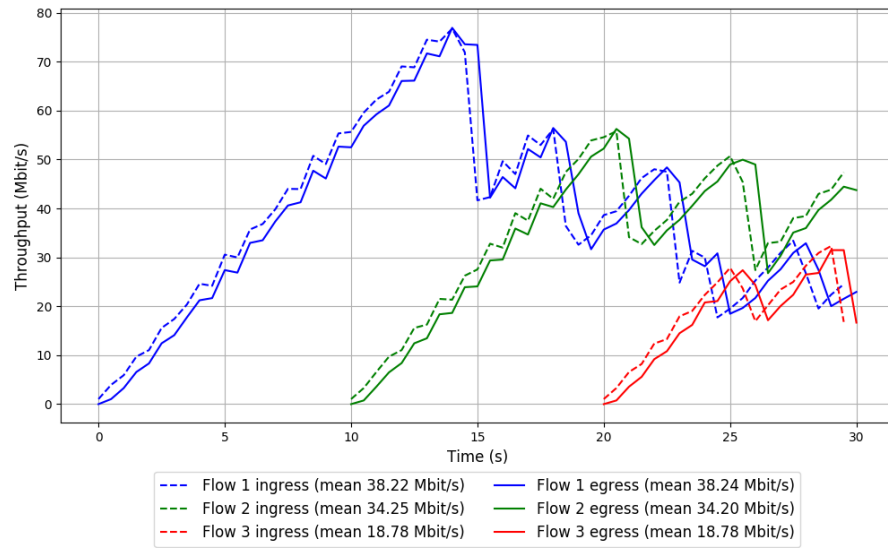
-- Flow 3:

Average throughput: 18.78 Mbit/s

95th percentile per-packet one-way delay: 40.431 ms

Loss rate: 0.70%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-25 10:47:16

End at: 2018-07-25 10:47:46

Local clock offset: 0.026 ms

Remote clock offset: 1.252 ms

Below is generated by plot.py at 2018-07-25 11:36:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.18 Mbit/s

95th percentile per-packet one-way delay: 37.925 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 33.36 Mbit/s

95th percentile per-packet one-way delay: 37.991 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 31.55 Mbit/s

95th percentile per-packet one-way delay: 38.908 ms

Loss rate: 0.33%

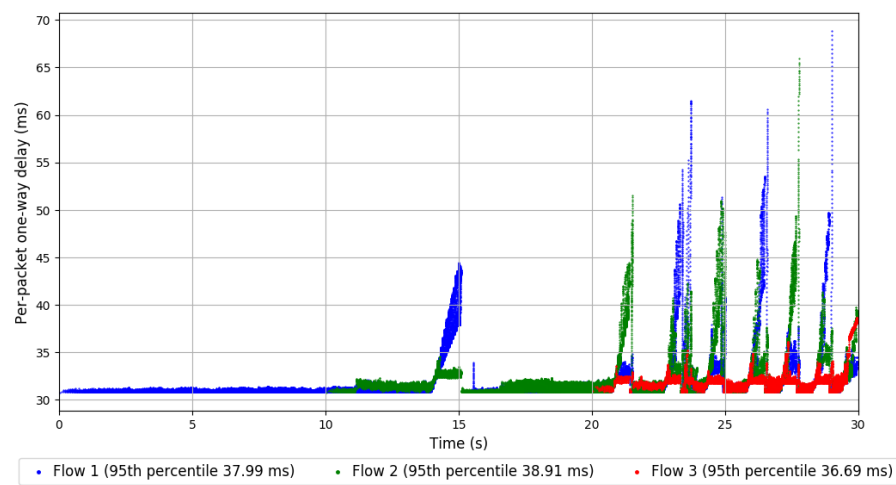
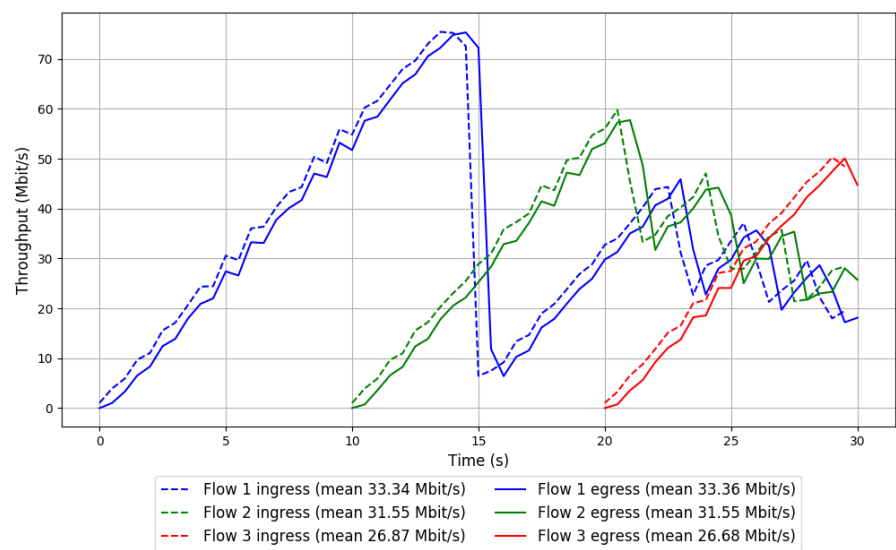
-- Flow 3:

Average throughput: 26.68 Mbit/s

95th percentile per-packet one-way delay: 36.688 ms

Loss rate: 1.34%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-25 11:10:06

End at: 2018-07-25 11:10:36

Local clock offset: 1.996 ms

Remote clock offset: 1.969 ms

Below is generated by plot.py at 2018-07-25 11:36:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.31 Mbit/s

95th percentile per-packet one-way delay: 40.311 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 38.60 Mbit/s

95th percentile per-packet one-way delay: 40.596 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 28.62 Mbit/s

95th percentile per-packet one-way delay: 40.041 ms

Loss rate: 0.26%

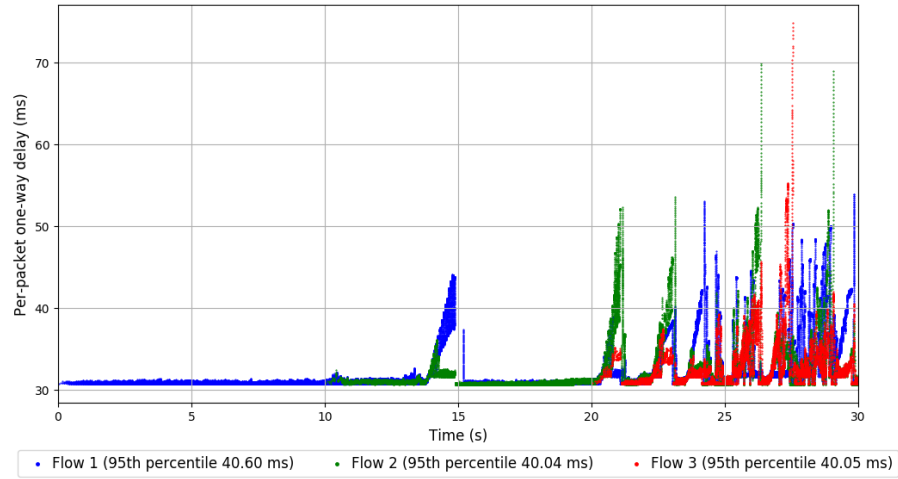
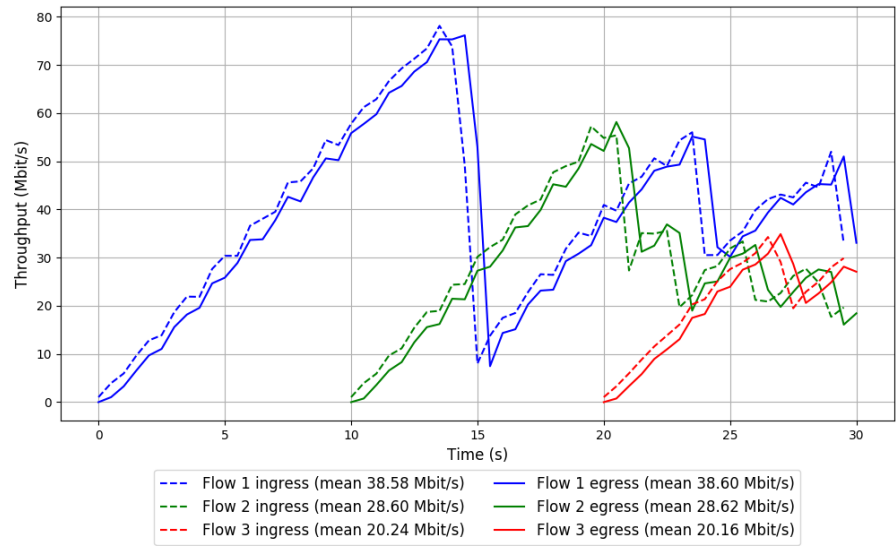
-- Flow 3:

Average throughput: 20.16 Mbit/s

95th percentile per-packet one-way delay: 40.046 ms

Loss rate: 1.05%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-07-25 07:42:32

End at: 2018-07-25 07:43:02

Local clock offset: 3.258 ms

Remote clock offset: 3.555 ms

Below is generated by plot.py at 2018-07-25 11:37:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.03 Mbit/s

95th percentile per-packet one-way delay: 65.221 ms

Loss rate: 3.30%

-- Flow 1:

Average throughput: 62.18 Mbit/s

95th percentile per-packet one-way delay: 51.976 ms

Loss rate: 3.15%

-- Flow 2:

Average throughput: 34.72 Mbit/s

95th percentile per-packet one-way delay: 69.944 ms

Loss rate: 4.21%

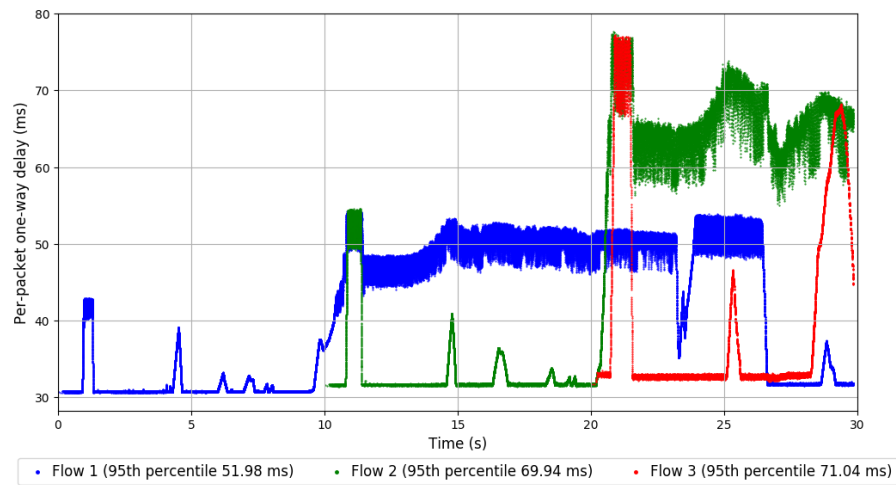
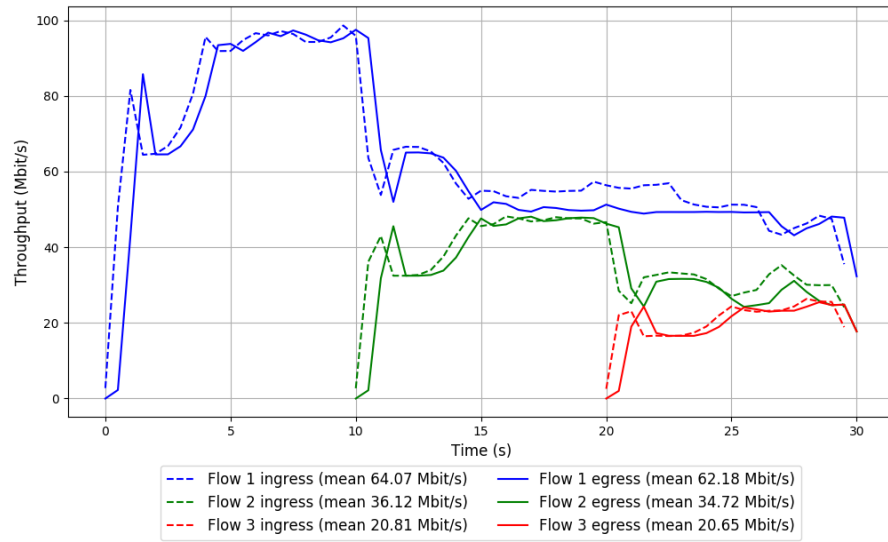
-- Flow 3:

Average throughput: 20.65 Mbit/s

95th percentile per-packet one-way delay: 71.042 ms

Loss rate: 1.43%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-25 08:05:27

End at: 2018-07-25 08:05:57

Local clock offset: 3.21 ms

Remote clock offset: 6.209 ms

Below is generated by plot.py at 2018-07-25 11:37:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.00 Mbit/s

95th percentile per-packet one-way delay: 66.243 ms

Loss rate: 3.29%

-- Flow 1:

Average throughput: 63.69 Mbit/s

95th percentile per-packet one-way delay: 52.219 ms

Loss rate: 3.06%

-- Flow 2:

Average throughput: 33.79 Mbit/s

95th percentile per-packet one-way delay: 70.807 ms

Loss rate: 4.42%

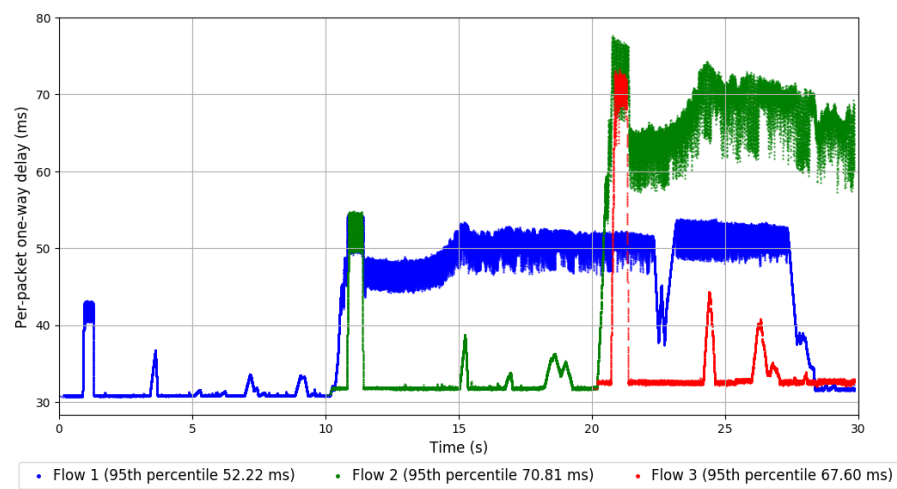
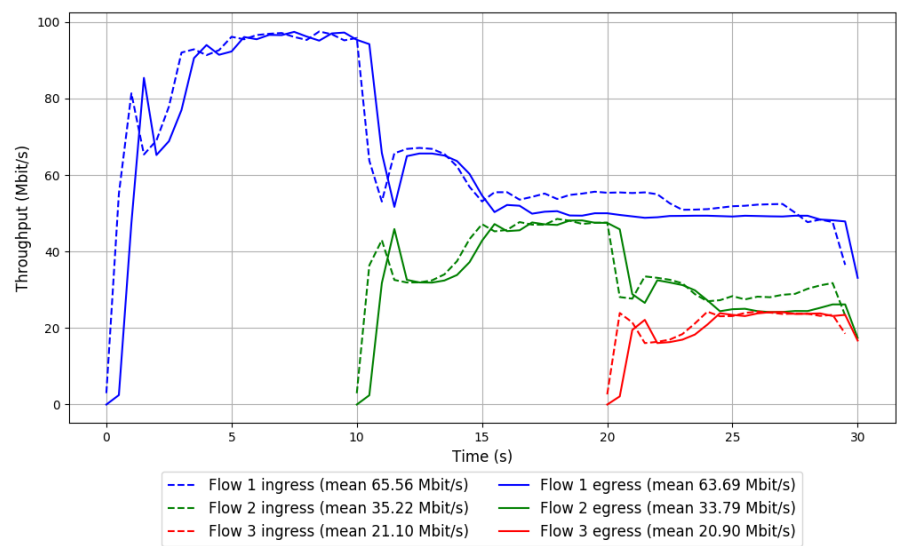
-- Flow 3:

Average throughput: 20.90 Mbit/s

95th percentile per-packet one-way delay: 67.604 ms

Loss rate: 1.62%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-25 08:28:23

End at: 2018-07-25 08:28:53

Local clock offset: 2.769 ms

Remote clock offset: 4.193 ms

Below is generated by plot.py at 2018-07-25 11:37:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.79 Mbit/s

95th percentile per-packet one-way delay: 67.082 ms

Loss rate: 2.44%

-- Flow 1:

Average throughput: 55.19 Mbit/s

95th percentile per-packet one-way delay: 68.861 ms

Loss rate: 2.71%

-- Flow 2:

Average throughput: 44.83 Mbit/s

95th percentile per-packet one-way delay: 53.005 ms

Loss rate: 2.26%

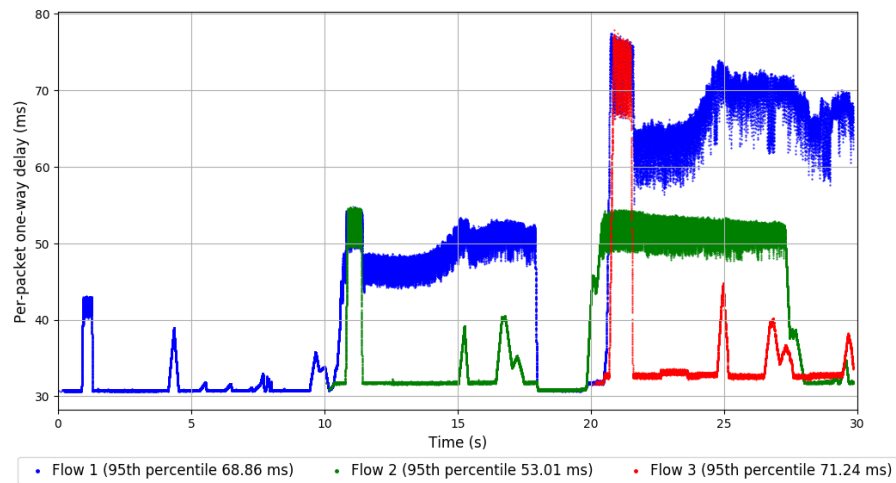
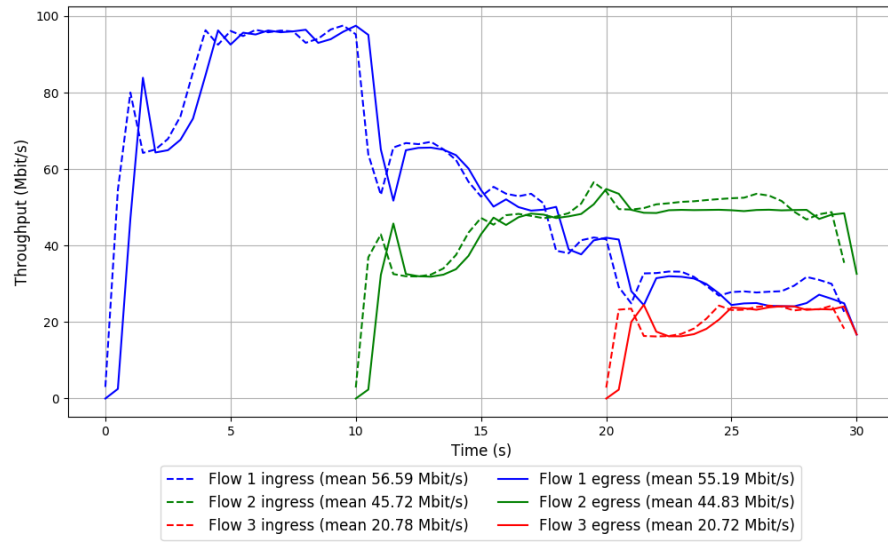
-- Flow 3:

Average throughput: 20.72 Mbit/s

95th percentile per-packet one-way delay: 71.239 ms

Loss rate: 0.95%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-25 08:51:30

End at: 2018-07-25 08:52:00

Local clock offset: -0.425 ms

Remote clock offset: 2.797 ms

Below is generated by plot.py at 2018-07-25 11:37:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.67 Mbit/s

95th percentile per-packet one-way delay: 62.327 ms

Loss rate: 5.26%

-- Flow 1:

Average throughput: 57.98 Mbit/s

95th percentile per-packet one-way delay: 58.213 ms

Loss rate: 6.24%

-- Flow 2:

Average throughput: 37.37 Mbit/s

95th percentile per-packet one-way delay: 63.404 ms

Loss rate: 3.99%

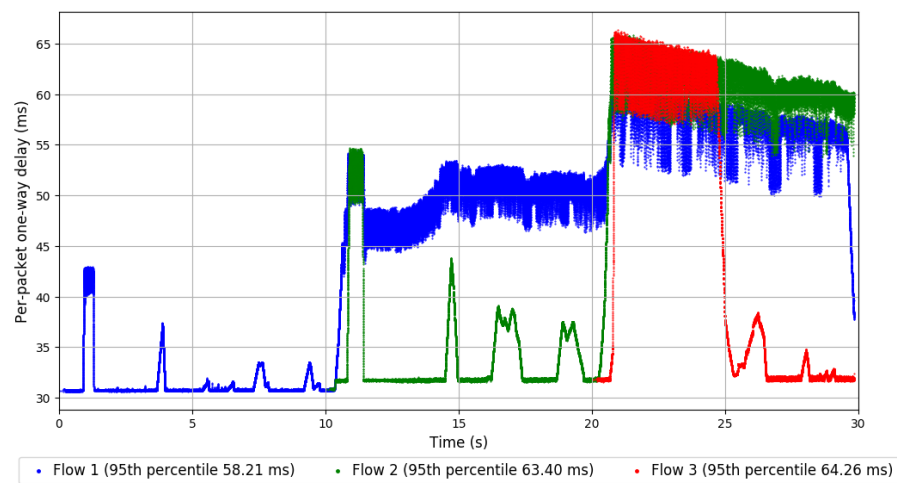
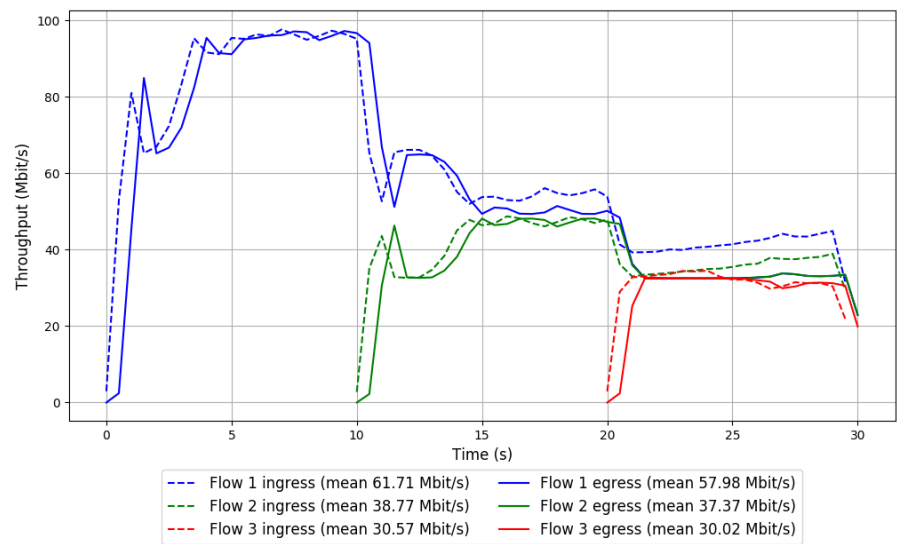
-- Flow 3:

Average throughput: 30.02 Mbit/s

95th percentile per-packet one-way delay: 64.256 ms

Loss rate: 2.46%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-25 09:14:27

End at: 2018-07-25 09:14:57

Local clock offset: 2.162 ms

Remote clock offset: 2.866 ms

Below is generated by plot.py at 2018-07-25 11:37:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.61 Mbit/s

95th percentile per-packet one-way delay: 65.861 ms

Loss rate: 5.19%

-- Flow 1:

Average throughput: 56.14 Mbit/s

95th percentile per-packet one-way delay: 62.073 ms

Loss rate: 6.48%

-- Flow 2:

Average throughput: 34.61 Mbit/s

95th percentile per-packet one-way delay: 69.660 ms

Loss rate: 4.35%

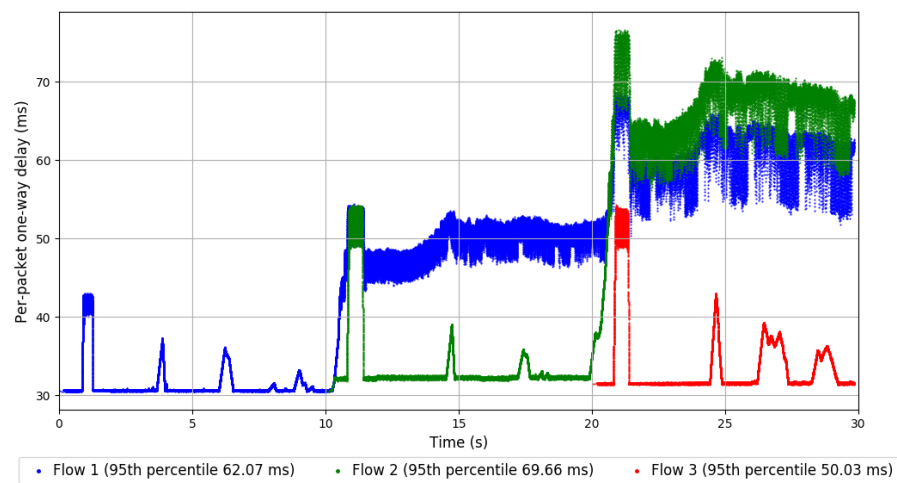
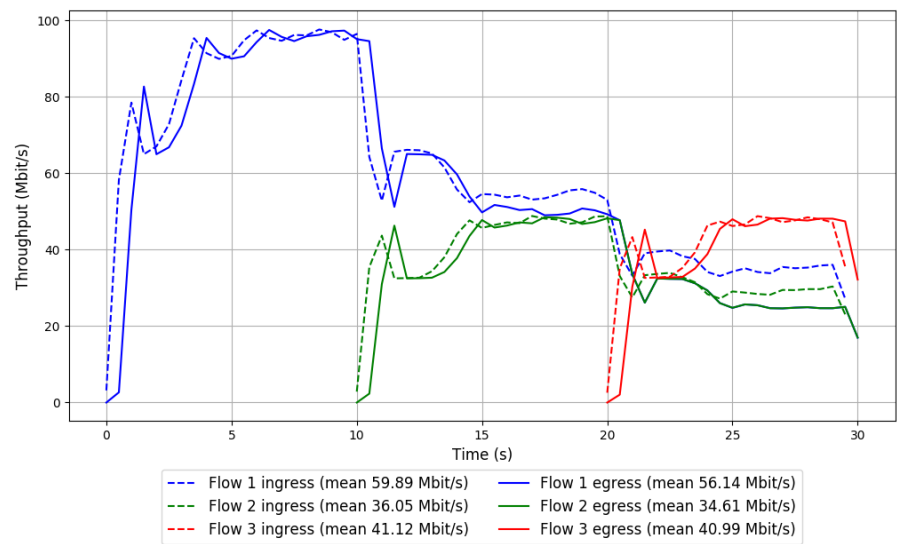
-- Flow 3:

Average throughput: 40.99 Mbit/s

95th percentile per-packet one-way delay: 50.033 ms

Loss rate: 0.97%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-25 09:37:23

End at: 2018-07-25 09:37:53

Local clock offset: 1.427 ms

Remote clock offset: 2.622 ms

Below is generated by plot.py at 2018-07-25 11:37:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.29 Mbit/s

95th percentile per-packet one-way delay: 63.242 ms

Loss rate: 2.25%

-- Flow 1:

Average throughput: 57.36 Mbit/s

95th percentile per-packet one-way delay: 61.774 ms

Loss rate: 1.86%

-- Flow 2:

Average throughput: 38.03 Mbit/s

95th percentile per-packet one-way delay: 63.702 ms

Loss rate: 3.13%

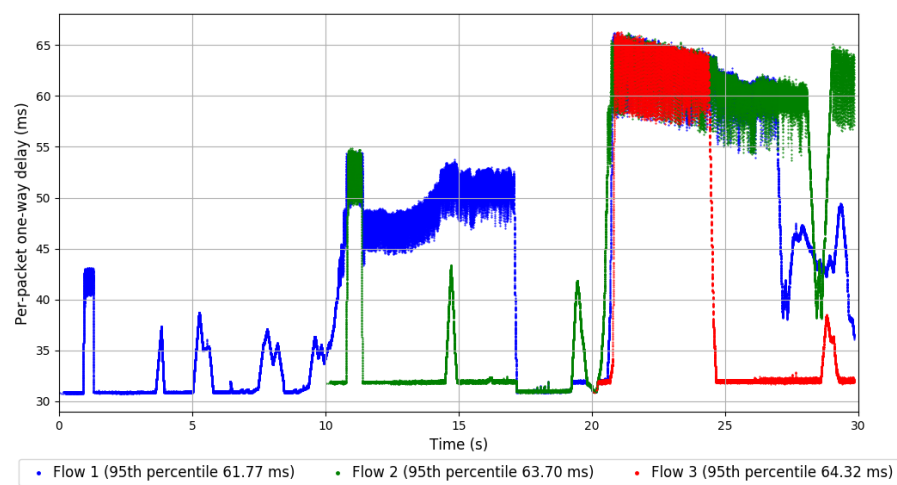
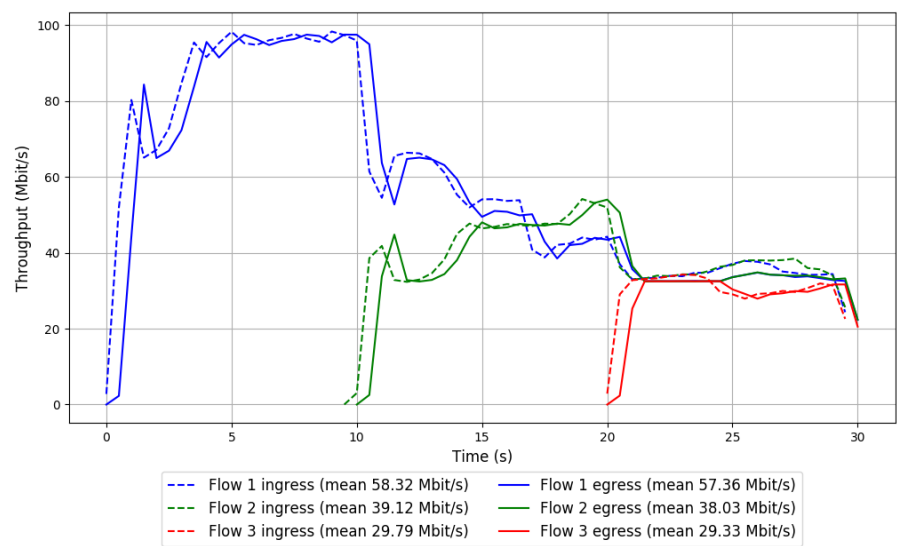
-- Flow 3:

Average throughput: 29.33 Mbit/s

95th percentile per-packet one-way delay: 64.320 ms

Loss rate: 2.18%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-25 10:00:16

End at: 2018-07-25 10:00:46

Local clock offset: -0.57 ms

Remote clock offset: 2.394 ms

Below is generated by plot.py at 2018-07-25 11:37:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.11 Mbit/s

95th percentile per-packet one-way delay: 62.339 ms

Loss rate: 5.22%

-- Flow 1:

Average throughput: 58.39 Mbit/s

95th percentile per-packet one-way delay: 58.514 ms

Loss rate: 6.07%

-- Flow 2:

Average throughput: 37.36 Mbit/s

95th percentile per-packet one-way delay: 63.317 ms

Loss rate: 4.21%

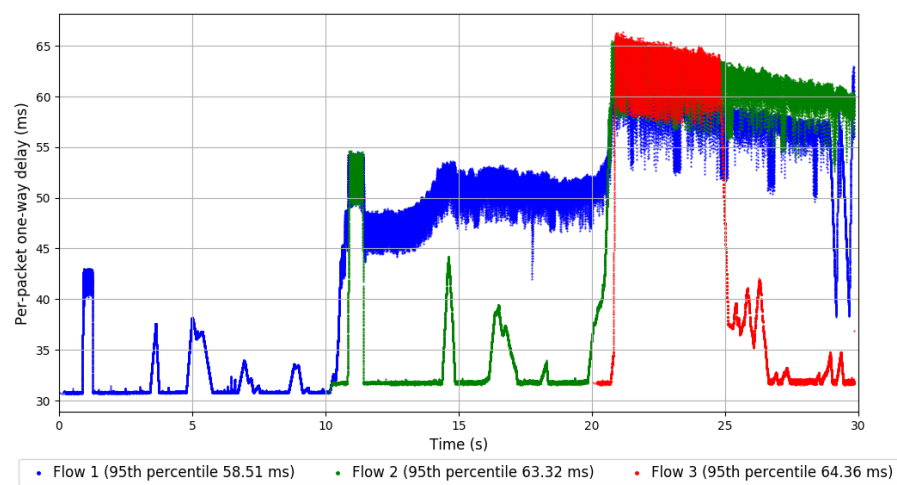
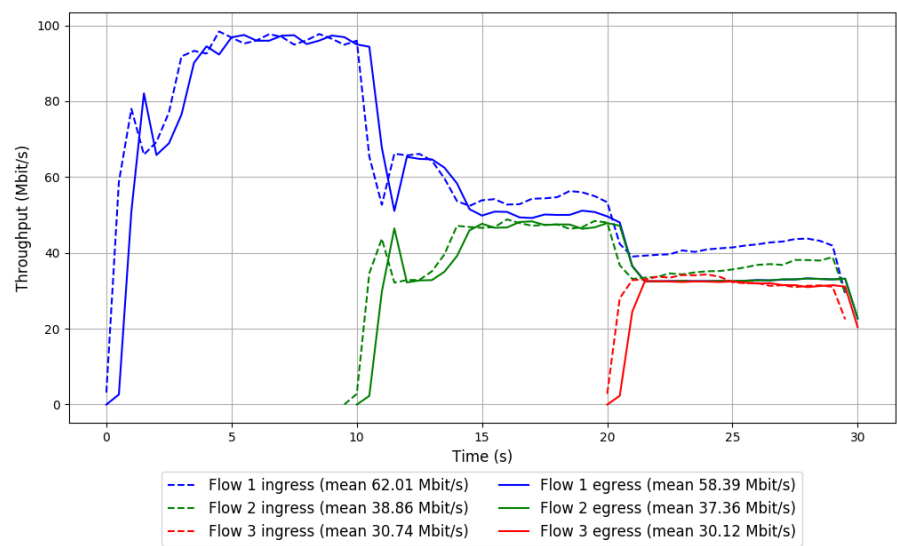
-- Flow 3:

Average throughput: 30.12 Mbit/s

95th percentile per-packet one-way delay: 64.356 ms

Loss rate: 2.61%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-25 10:23:07

End at: 2018-07-25 10:23:37

Local clock offset: -0.212 ms

Remote clock offset: 2.437 ms

Below is generated by plot.py at 2018-07-25 11:37:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.72 Mbit/s

95th percentile per-packet one-way delay: 59.224 ms

Loss rate: 2.01%

-- Flow 1:

Average throughput: 60.52 Mbit/s

95th percentile per-packet one-way delay: 60.046 ms

Loss rate: 2.36%

-- Flow 2:

Average throughput: 34.83 Mbit/s

95th percentile per-packet one-way delay: 57.713 ms

Loss rate: 1.43%

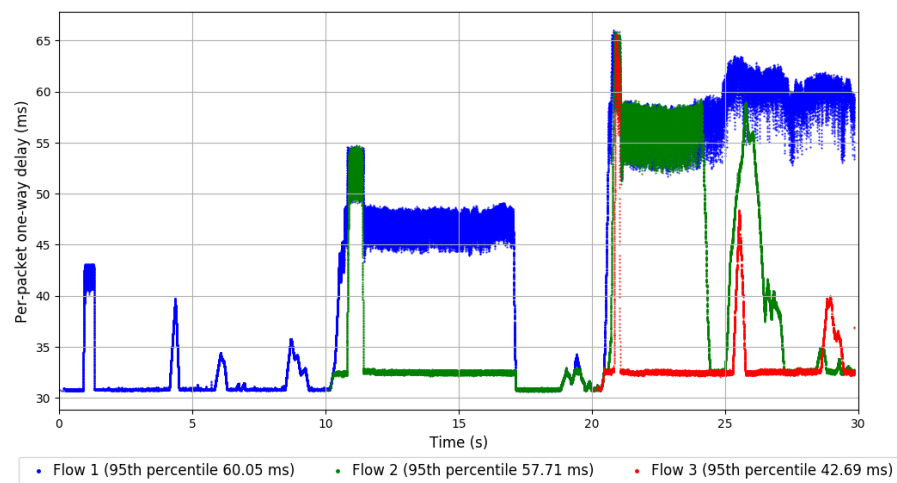
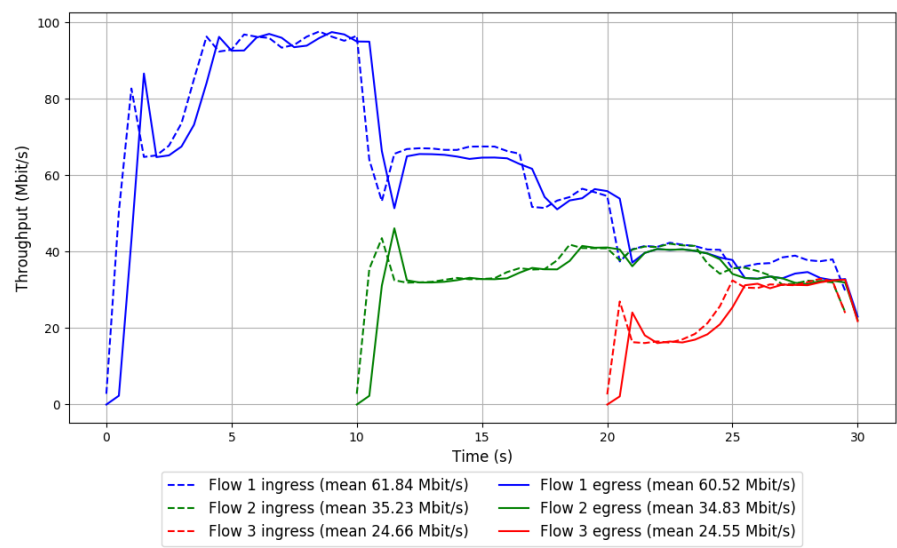
-- Flow 3:

Average throughput: 24.55 Mbit/s

95th percentile per-packet one-way delay: 42.690 ms

Loss rate: 1.03%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-25 10:45:56

End at: 2018-07-25 10:46:26

Local clock offset: 0.021 ms

Remote clock offset: 1.266 ms

Below is generated by plot.py at 2018-07-25 11:38:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.34 Mbit/s

95th percentile per-packet one-way delay: 67.081 ms

Loss rate: 2.27%

-- Flow 1:

Average throughput: 53.92 Mbit/s

95th percentile per-packet one-way delay: 69.350 ms

Loss rate: 2.60%

-- Flow 2:

Average throughput: 45.87 Mbit/s

95th percentile per-packet one-way delay: 52.812 ms

Loss rate: 1.97%

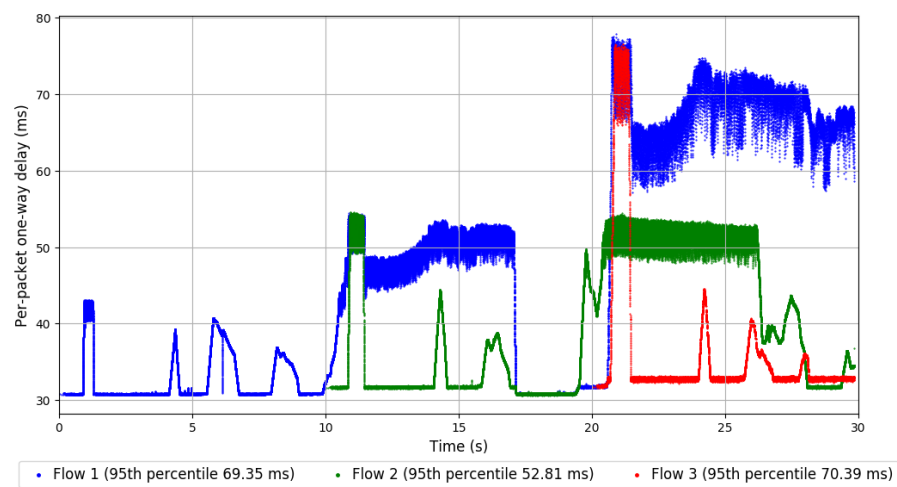
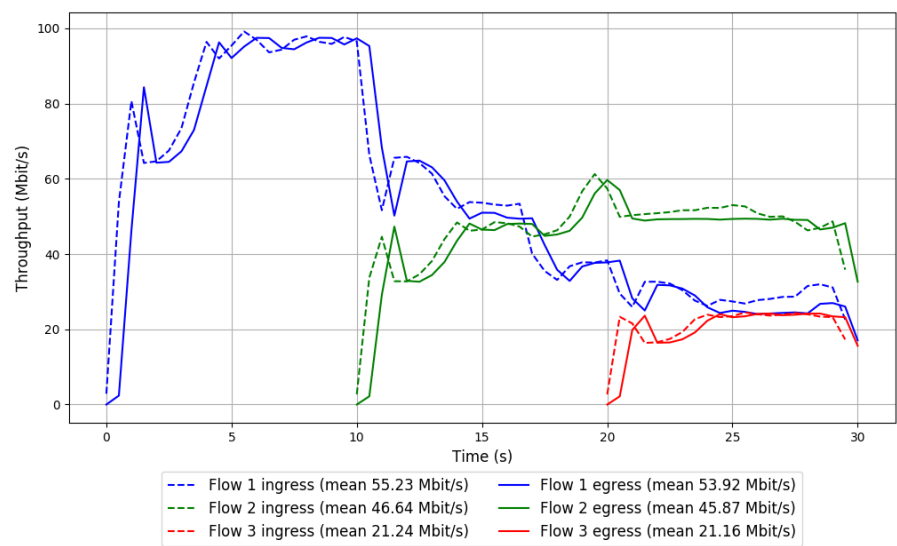
-- Flow 3:

Average throughput: 21.16 Mbit/s

95th percentile per-packet one-way delay: 70.389 ms

Loss rate: 1.02%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-25 11:08:46

End at: 2018-07-25 11:09:16

Local clock offset: 1.717 ms

Remote clock offset: 1.938 ms

Below is generated by plot.py at 2018-07-25 11:38:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.67 Mbit/s

95th percentile per-packet one-way delay: 67.696 ms

Loss rate: 3.01%

-- Flow 1:

Average throughput: 54.33 Mbit/s

95th percentile per-packet one-way delay: 67.571 ms

Loss rate: 2.73%

-- Flow 2:

Average throughput: 36.13 Mbit/s

95th percentile per-packet one-way delay: 68.613 ms

Loss rate: 4.80%

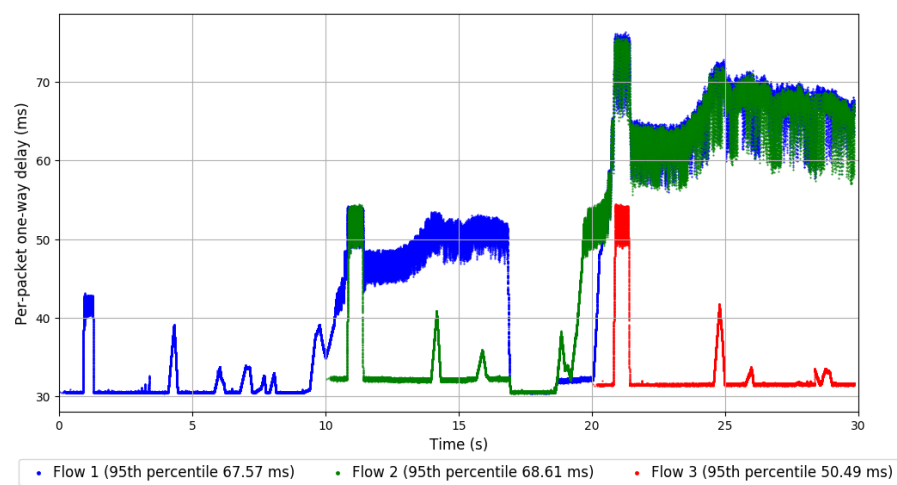
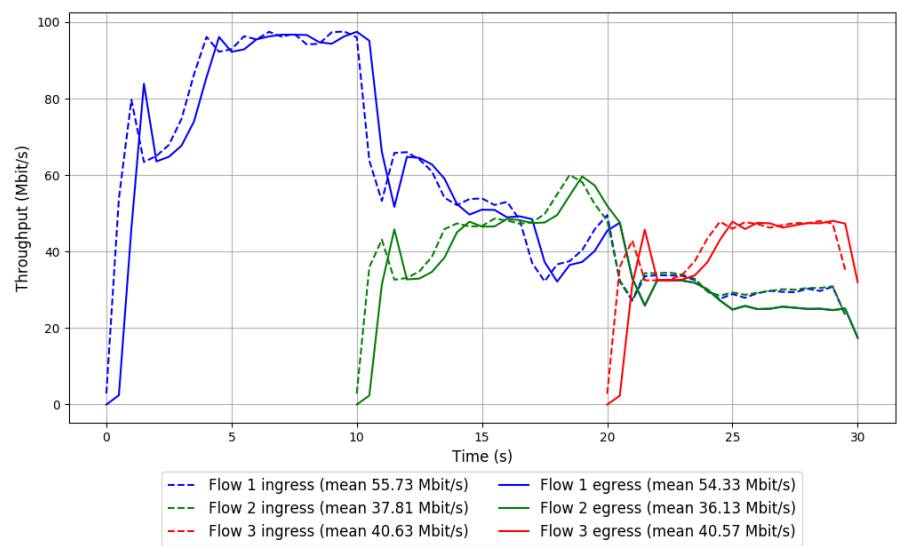
-- Flow 3:

Average throughput: 40.57 Mbit/s

95th percentile per-packet one-way delay: 50.487 ms

Loss rate: 0.81%

Run 10: Report of PCC-Allegro — Data Link

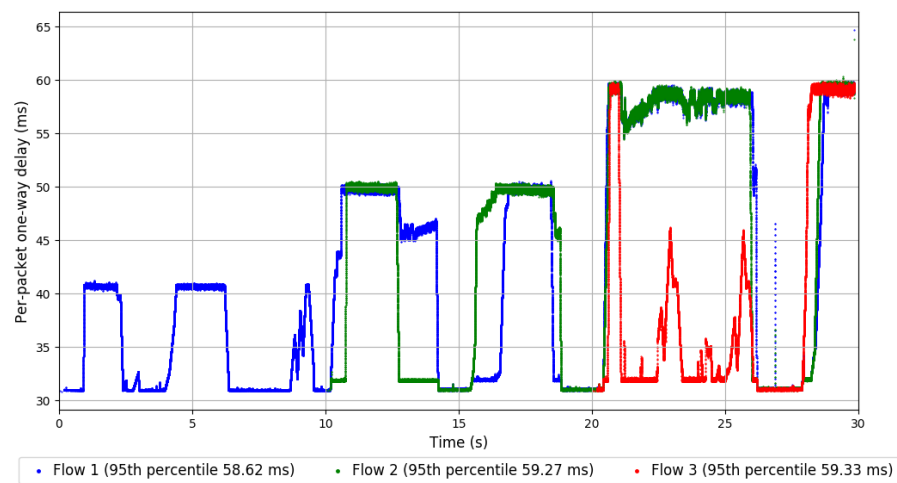
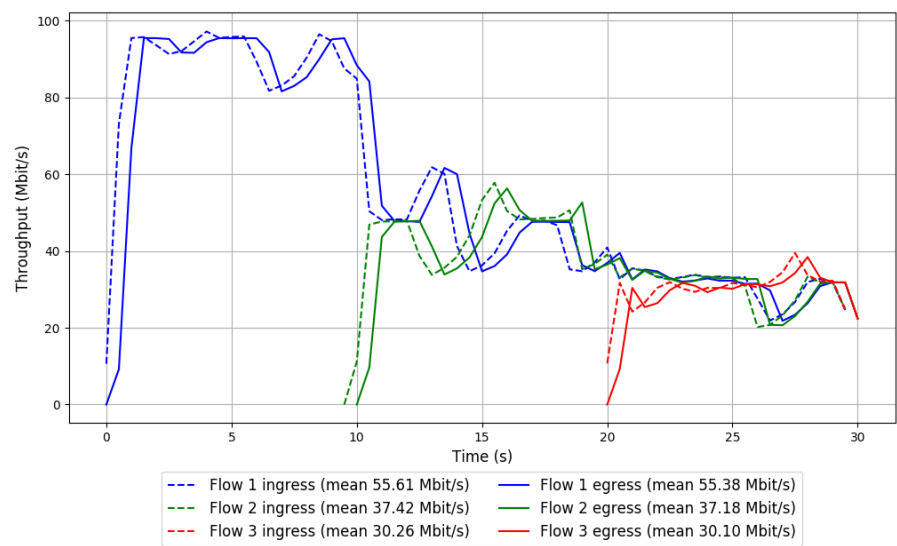


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-25 07:47:58
End at: 2018-07-25 07:48:28
Local clock offset: 3.383 ms
Remote clock offset: 3.992 ms

# Below is generated by plot.py at 2018-07-25 11:39:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.00 Mbit/s
95th percentile per-packet one-way delay: 59.073 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 55.38 Mbit/s
95th percentile per-packet one-way delay: 58.616 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 37.18 Mbit/s
95th percentile per-packet one-way delay: 59.268 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 30.10 Mbit/s
95th percentile per-packet one-way delay: 59.325 ms
Loss rate: 1.19%
```


Run 1: Report of PCC-Expr — Data Link

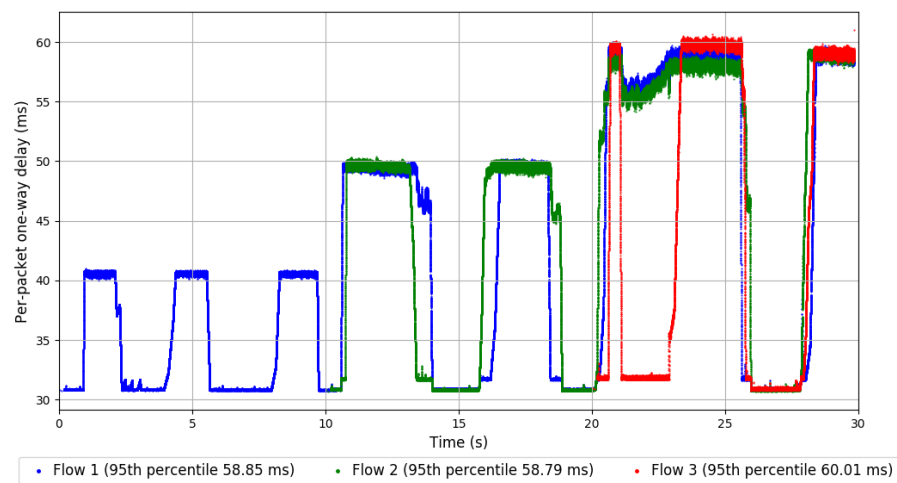
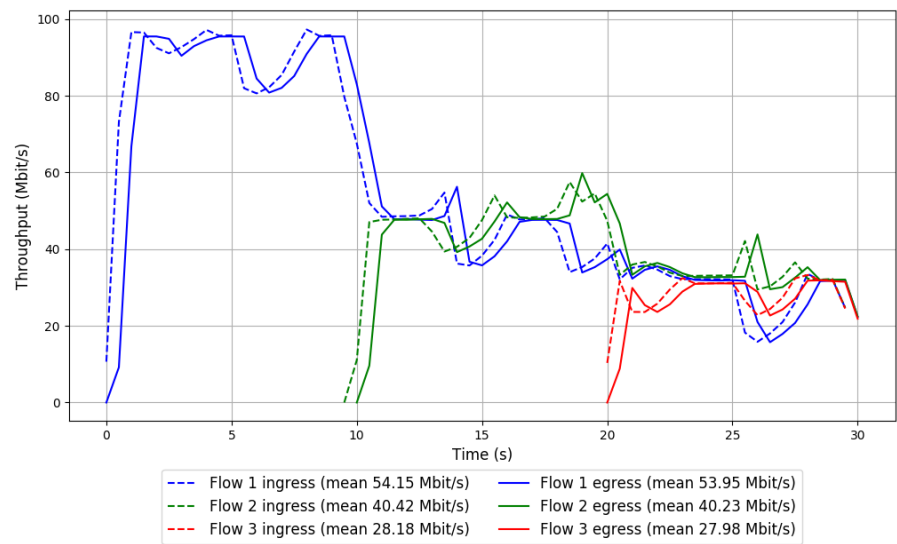


```
Run 2: Statistics of PCC-Expr

Start at: 2018-07-25 08:10:52
End at: 2018-07-25 08:11:22
Local clock offset: 3.076 ms
Remote clock offset: 4.73 ms

# Below is generated by plot.py at 2018-07-25 11:39:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.89 Mbit/s
95th percentile per-packet one-way delay: 59.151 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 53.95 Mbit/s
95th percentile per-packet one-way delay: 58.846 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 40.23 Mbit/s
95th percentile per-packet one-way delay: 58.794 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 27.98 Mbit/s
95th percentile per-packet one-way delay: 60.009 ms
Loss rate: 1.36%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-25 08:33:56

End at: 2018-07-25 08:34:26

Local clock offset: 2.005 ms

Remote clock offset: 4.441 ms

Below is generated by plot.py at 2018-07-25 11:39:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.07 Mbit/s

95th percentile per-packet one-way delay: 67.941 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 53.37 Mbit/s

95th percentile per-packet one-way delay: 67.751 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 43.53 Mbit/s

95th percentile per-packet one-way delay: 50.460 ms

Loss rate: 0.81%

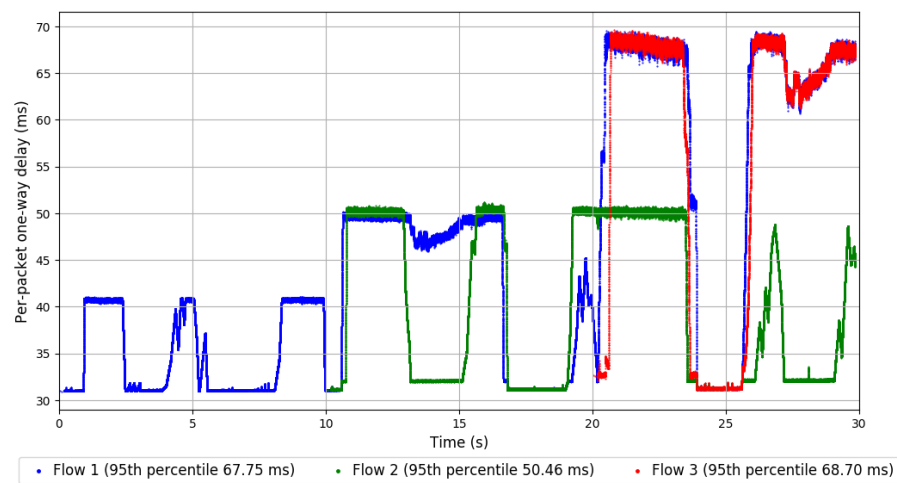
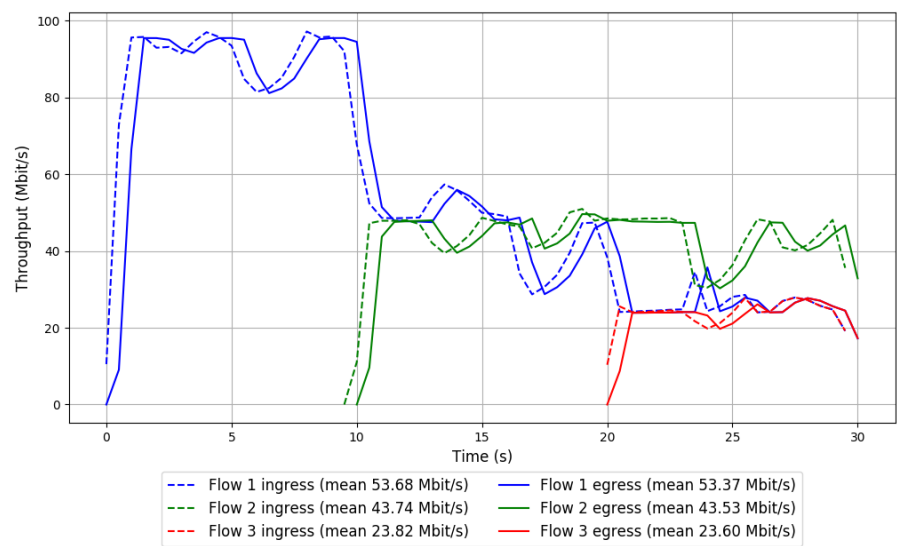
-- Flow 3:

Average throughput: 23.60 Mbit/s

95th percentile per-packet one-way delay: 68.702 ms

Loss rate: 1.72%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-25 08:56:55

End at: 2018-07-25 08:57:25

Local clock offset: -0.788 ms

Remote clock offset: 2.49 ms

Below is generated by plot.py at 2018-07-25 11:39:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.55 Mbit/s

95th percentile per-packet one-way delay: 59.067 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 54.47 Mbit/s

95th percentile per-packet one-way delay: 58.077 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 39.42 Mbit/s

95th percentile per-packet one-way delay: 59.069 ms

Loss rate: 0.90%

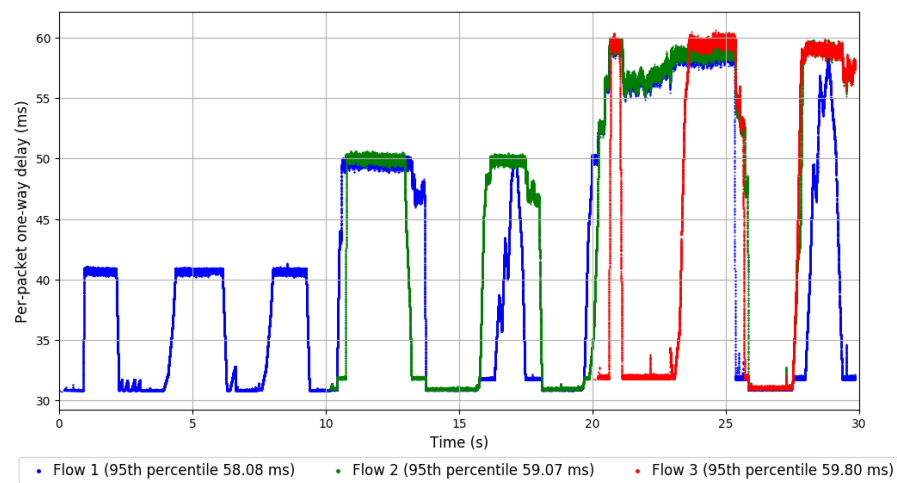
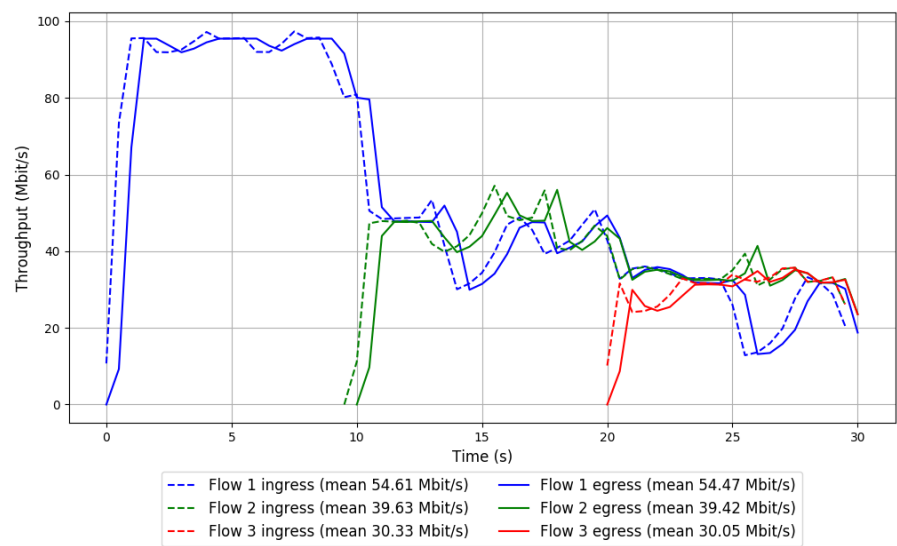
-- Flow 3:

Average throughput: 30.05 Mbit/s

95th percentile per-packet one-way delay: 59.795 ms

Loss rate: 1.58%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-25 09:19:52

End at: 2018-07-25 09:20:22

Local clock offset: 2.741 ms

Remote clock offset: 2.532 ms

Below is generated by plot.py at 2018-07-25 11:39:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.57 Mbit/s

95th percentile per-packet one-way delay: 66.530 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 51.65 Mbit/s

95th percentile per-packet one-way delay: 66.483 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 36.97 Mbit/s

95th percentile per-packet one-way delay: 67.144 ms

Loss rate: 1.25%

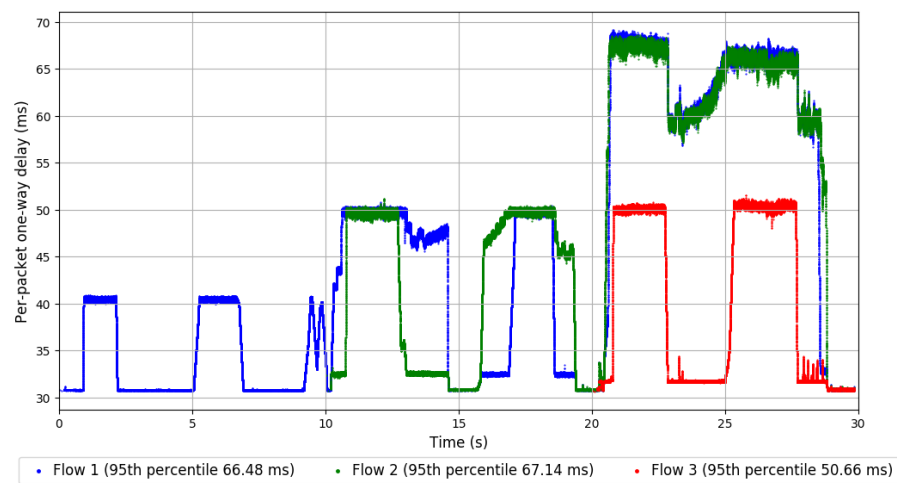
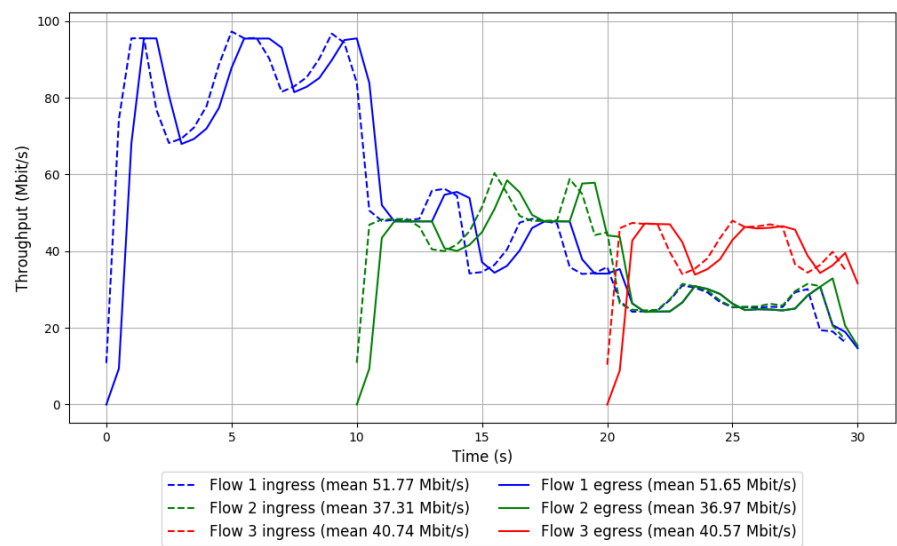
-- Flow 3:

Average throughput: 40.57 Mbit/s

95th percentile per-packet one-way delay: 50.656 ms

Loss rate: 1.07%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-25 09:42:48

End at: 2018-07-25 09:43:18

Local clock offset: 0.658 ms

Remote clock offset: 2.7 ms

Below is generated by plot.py at 2018-07-25 11:39:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.80 Mbit/s

95th percentile per-packet one-way delay: 58.507 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 56.61 Mbit/s

95th percentile per-packet one-way delay: 57.748 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 36.67 Mbit/s

95th percentile per-packet one-way delay: 58.326 ms

Loss rate: 0.81%

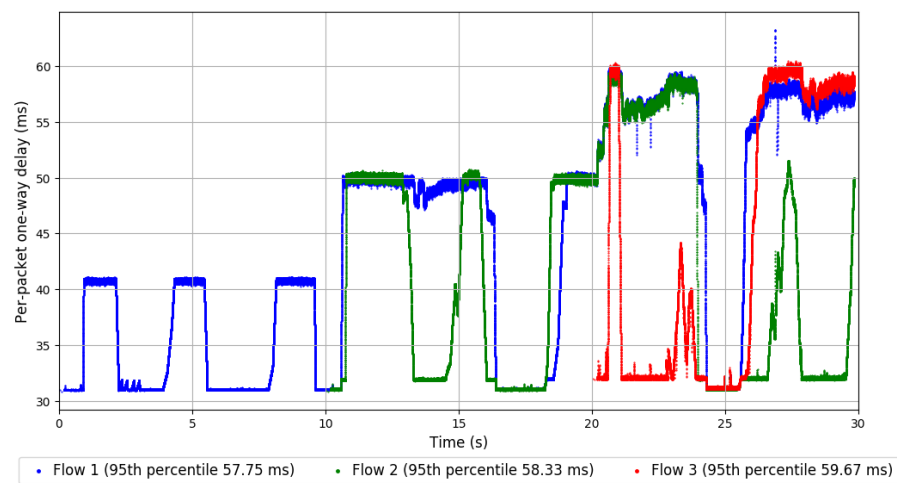
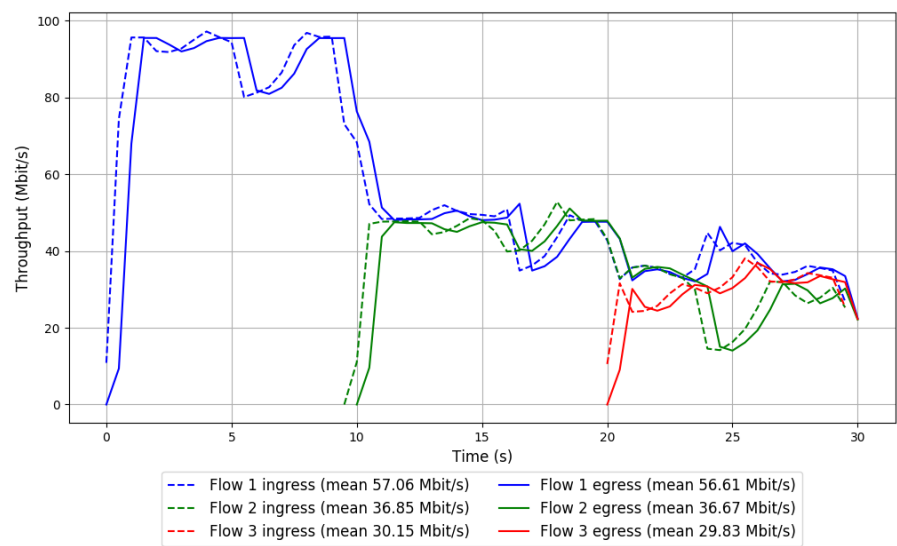
-- Flow 3:

Average throughput: 29.83 Mbit/s

95th percentile per-packet one-way delay: 59.668 ms

Loss rate: 1.83%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-25 10:05:41

End at: 2018-07-25 10:06:11

Local clock offset: -0.326 ms

Remote clock offset: 2.332 ms

Below is generated by plot.py at 2018-07-25 11:40:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.59 Mbit/s

95th percentile per-packet one-way delay: 58.929 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 56.81 Mbit/s

95th percentile per-packet one-way delay: 58.063 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 36.22 Mbit/s

95th percentile per-packet one-way delay: 59.179 ms

Loss rate: 1.05%

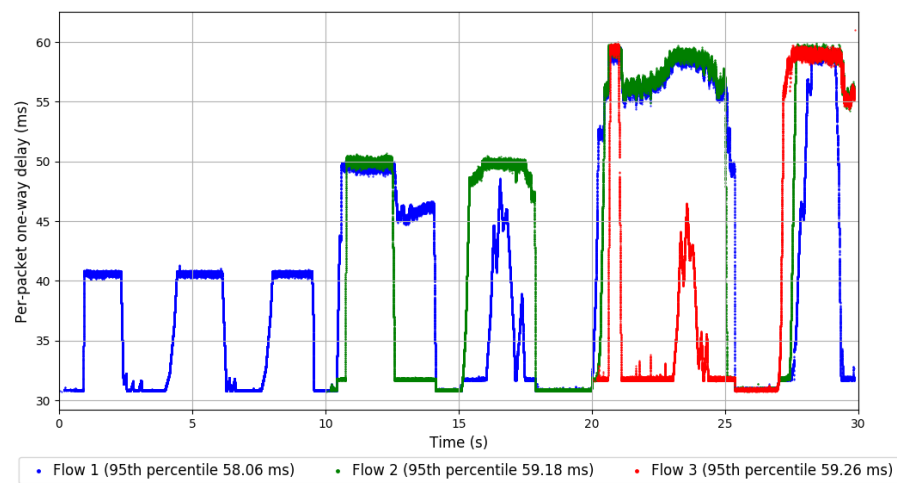
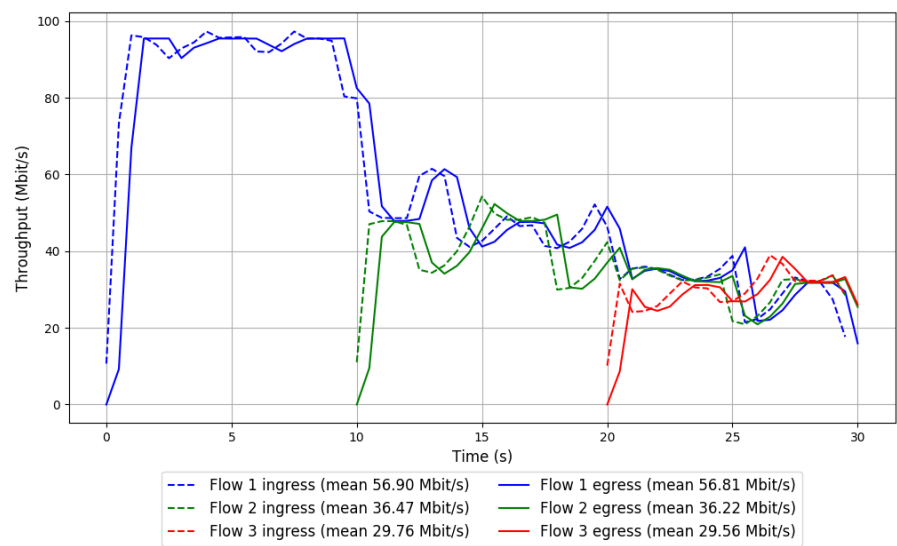
-- Flow 3:

Average throughput: 29.56 Mbit/s

95th percentile per-packet one-way delay: 59.255 ms

Loss rate: 1.37%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-25 10:28:31

End at: 2018-07-25 10:29:01

Local clock offset: -0.304 ms

Remote clock offset: 1.848 ms

Below is generated by plot.py at 2018-07-25 11:40:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.65 Mbit/s

95th percentile per-packet one-way delay: 58.747 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 55.63 Mbit/s

95th percentile per-packet one-way delay: 58.483 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 36.17 Mbit/s

95th percentile per-packet one-way delay: 58.452 ms

Loss rate: 0.98%

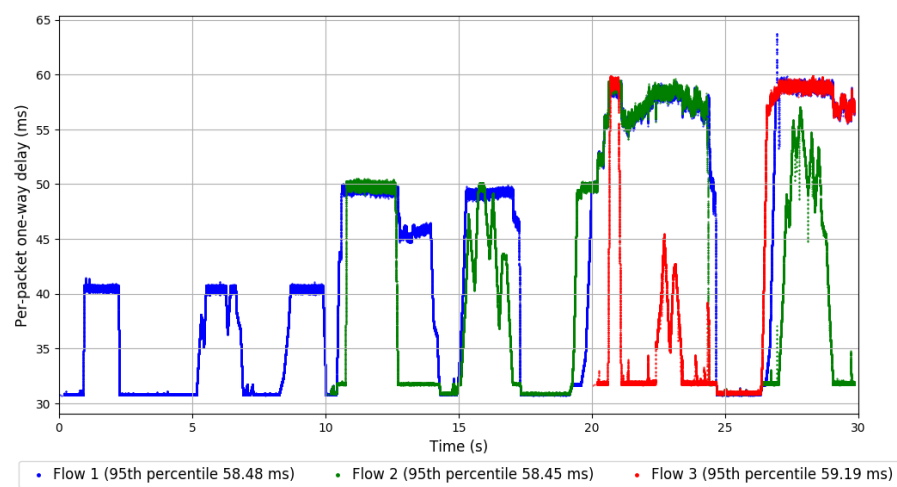
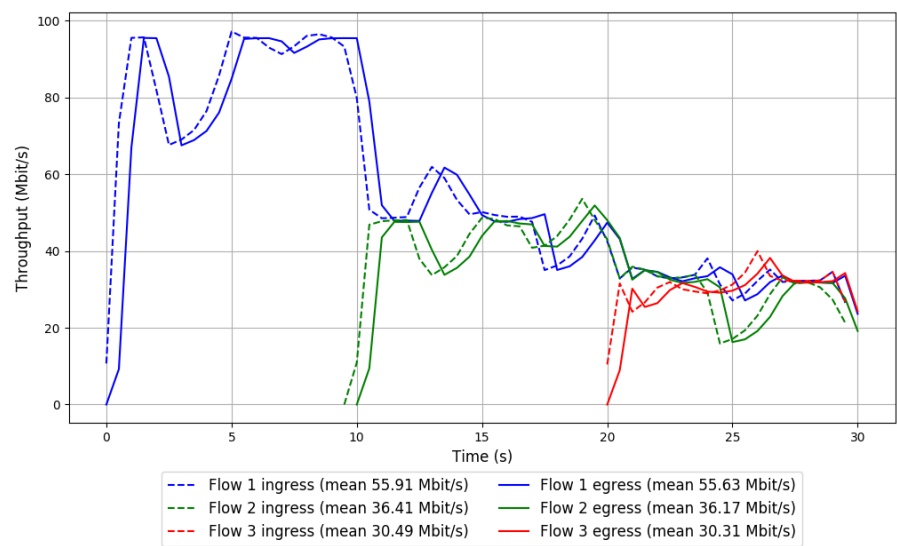
-- Flow 3:

Average throughput: 30.31 Mbit/s

95th percentile per-packet one-way delay: 59.194 ms

Loss rate: 1.34%

Run 8: Report of PCC-Expr — Data Link

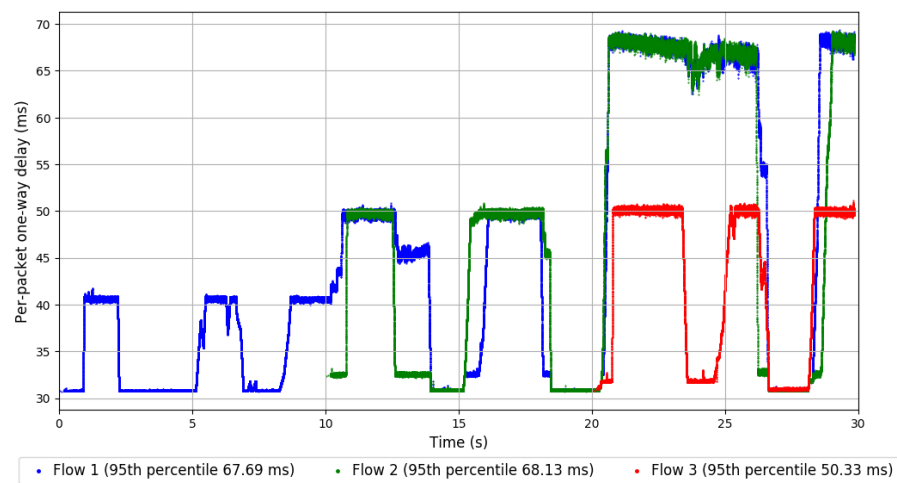
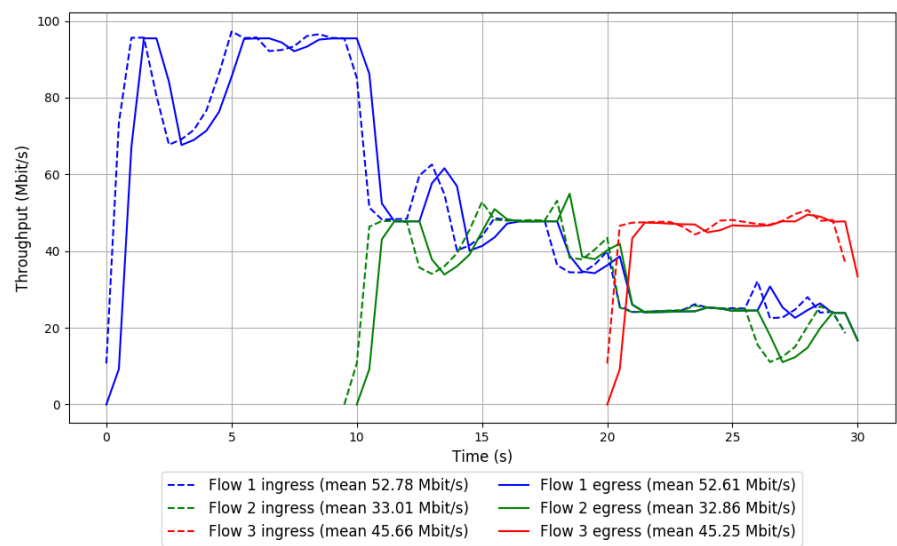


```
Run 9: Statistics of PCC-Expr

Start at: 2018-07-25 10:51:20
End at: 2018-07-25 10:51:50
Local clock offset: 0.049 ms
Remote clock offset: 1.223 ms

# Below is generated by plot.py at 2018-07-25 11:41:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.34 Mbit/s
95th percentile per-packet one-way delay: 67.764 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 52.61 Mbit/s
95th percentile per-packet one-way delay: 67.694 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 32.86 Mbit/s
95th percentile per-packet one-way delay: 68.129 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 45.25 Mbit/s
95th percentile per-packet one-way delay: 50.332 ms
Loss rate: 1.63%
```


Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-25 11:14:12

End at: 2018-07-25 11:14:42

Local clock offset: 2.541 ms

Remote clock offset: 2.068 ms

Below is generated by plot.py at 2018-07-25 11:41:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.80 Mbit/s

95th percentile per-packet one-way delay: 67.074 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 55.40 Mbit/s

95th percentile per-packet one-way delay: 66.160 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 41.98 Mbit/s

95th percentile per-packet one-way delay: 50.102 ms

Loss rate: 0.88%

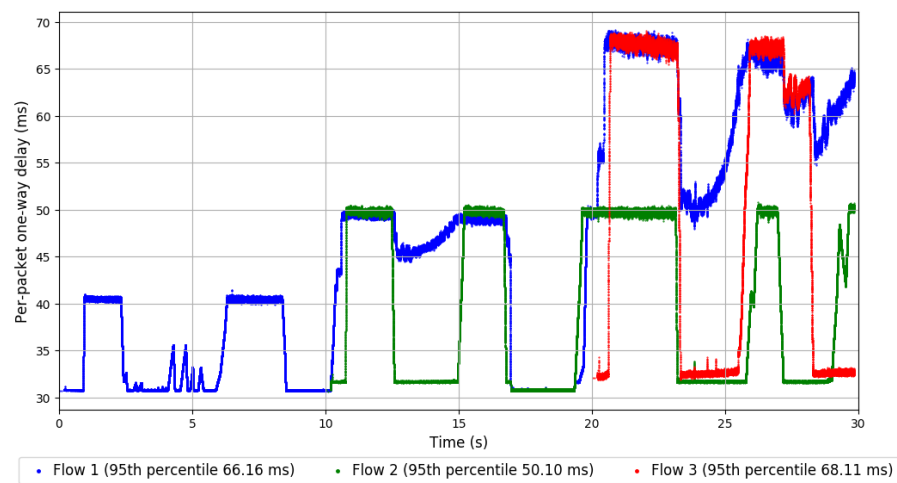
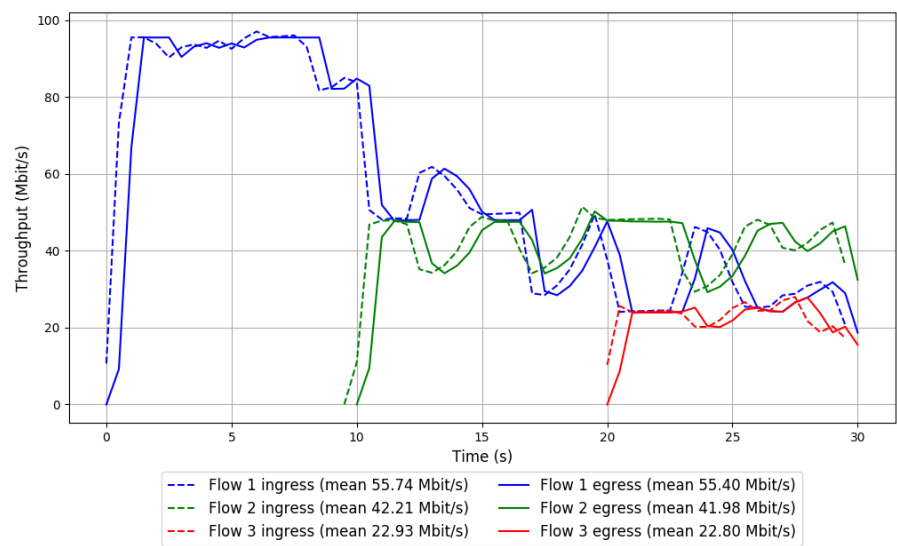
-- Flow 3:

Average throughput: 22.80 Mbit/s

95th percentile per-packet one-way delay: 68.107 ms

Loss rate: 1.22%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-25 07:53:24

End at: 2018-07-25 07:53:54

Local clock offset: 3.302 ms

Remote clock offset: 4.603 ms

Below is generated by plot.py at 2018-07-25 11:41:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.37 Mbit/s

95th percentile per-packet one-way delay: 52.207 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 43.24 Mbit/s

95th percentile per-packet one-way delay: 42.358 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 36.17 Mbit/s

95th percentile per-packet one-way delay: 52.704 ms

Loss rate: 0.36%

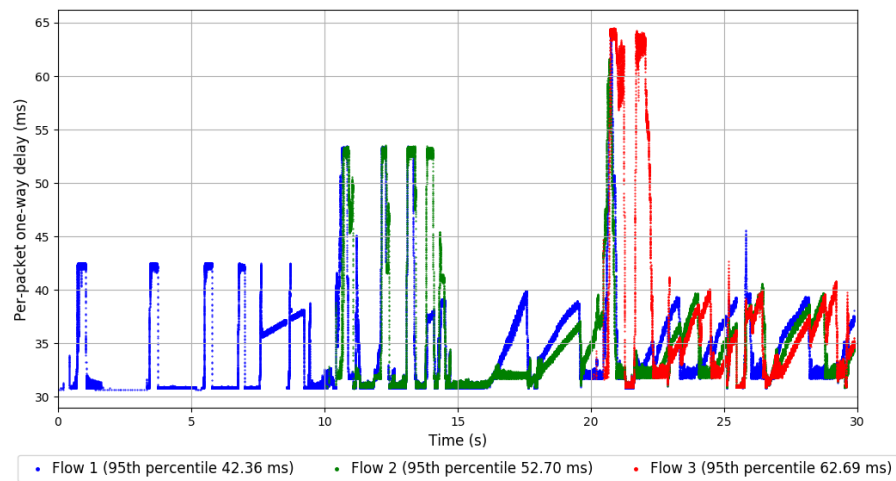
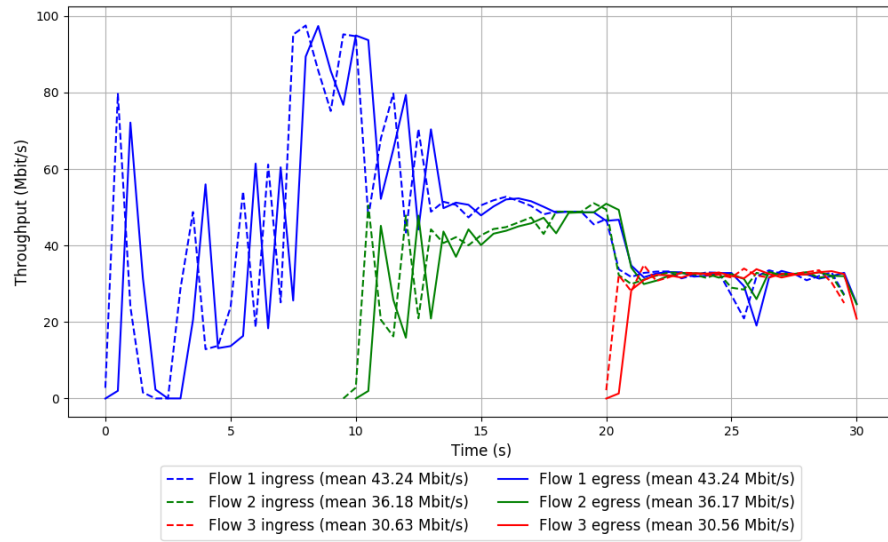
-- Flow 3:

Average throughput: 30.56 Mbit/s

95th percentile per-packet one-way delay: 62.690 ms

Loss rate: 0.89%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-25 08:16:19

End at: 2018-07-25 08:16:49

Local clock offset: 2.957 ms

Remote clock offset: 4.096 ms

Below is generated by plot.py at 2018-07-25 11:41:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.11 Mbit/s

95th percentile per-packet one-way delay: 51.467 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 40.89 Mbit/s

95th percentile per-packet one-way delay: 42.402 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 36.35 Mbit/s

95th percentile per-packet one-way delay: 52.731 ms

Loss rate: 0.38%

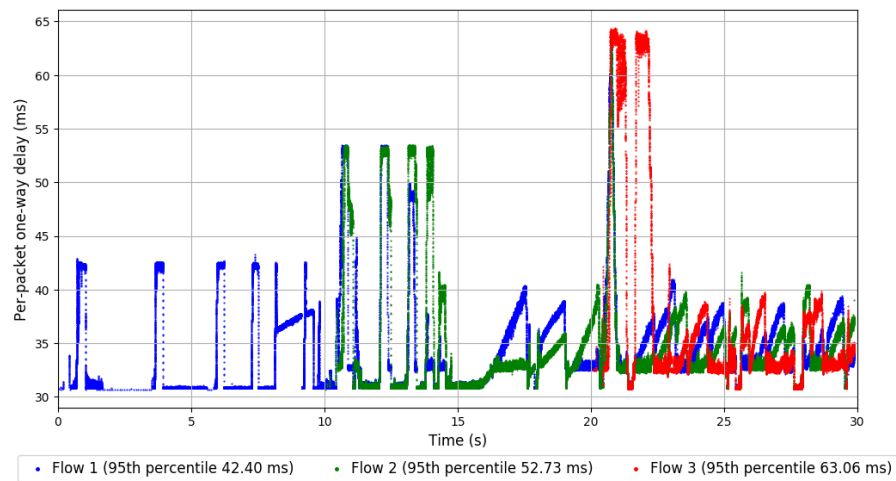
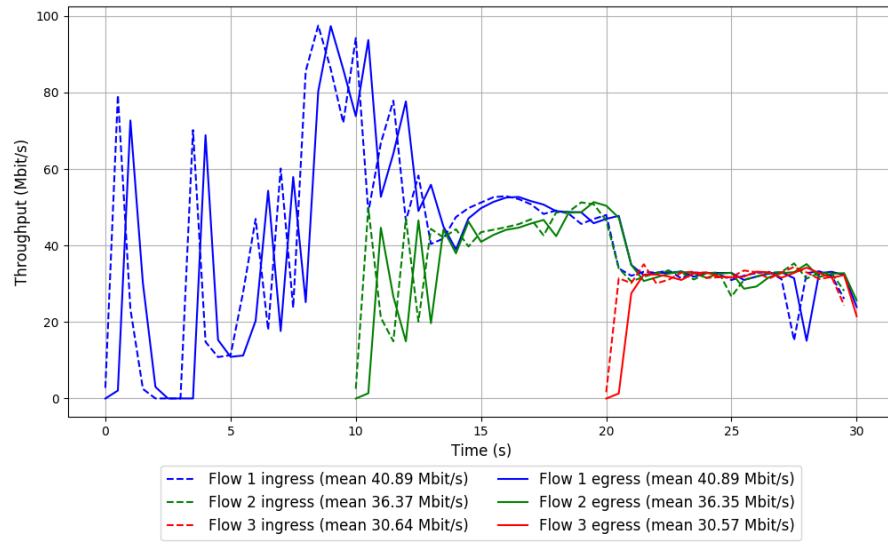
-- Flow 3:

Average throughput: 30.57 Mbit/s

95th percentile per-packet one-way delay: 63.065 ms

Loss rate: 0.91%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-25 08:39:22

End at: 2018-07-25 08:39:52

Local clock offset: 0.853 ms

Remote clock offset: 4.845 ms

Below is generated by plot.py at 2018-07-25 11:41:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.04 Mbit/s

95th percentile per-packet one-way delay: 52.382 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 43.05 Mbit/s

95th percentile per-packet one-way delay: 42.393 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 36.24 Mbit/s

95th percentile per-packet one-way delay: 53.132 ms

Loss rate: 0.39%

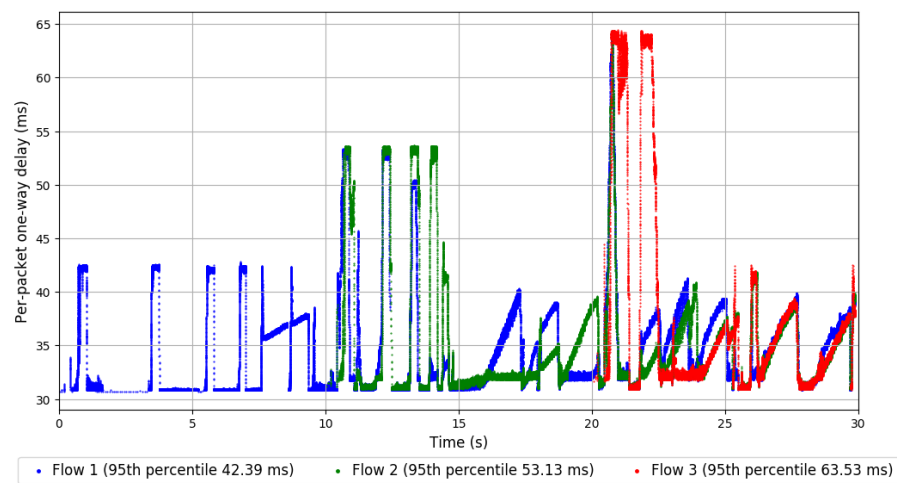
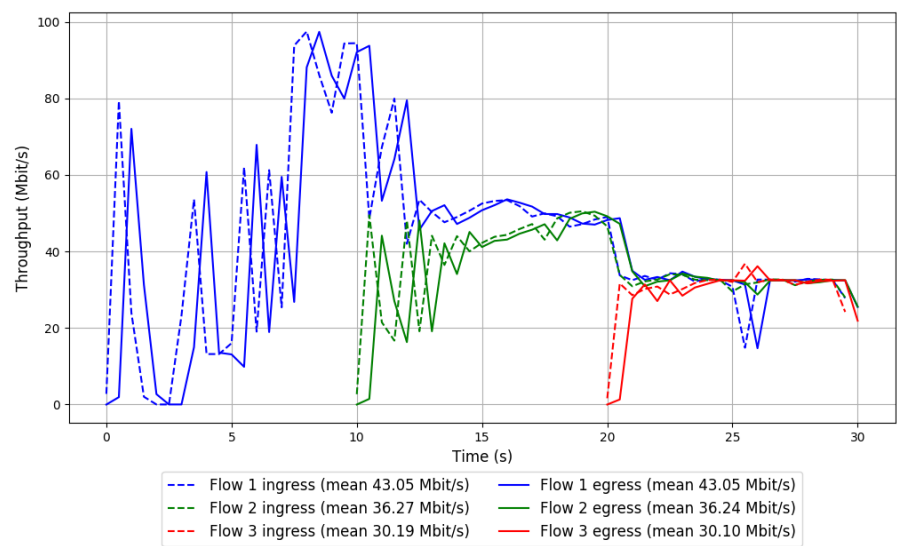
-- Flow 3:

Average throughput: 30.10 Mbit/s

95th percentile per-packet one-way delay: 63.533 ms

Loss rate: 0.97%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-25 09:02:22

End at: 2018-07-25 09:02:52

Local clock offset: -0.78 ms

Remote clock offset: 2.552 ms

Below is generated by plot.py at 2018-07-25 11:41:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.83 Mbit/s

95th percentile per-packet one-way delay: 52.201 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 40.65 Mbit/s

95th percentile per-packet one-way delay: 41.933 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 32.97 Mbit/s

95th percentile per-packet one-way delay: 52.211 ms

Loss rate: 0.36%

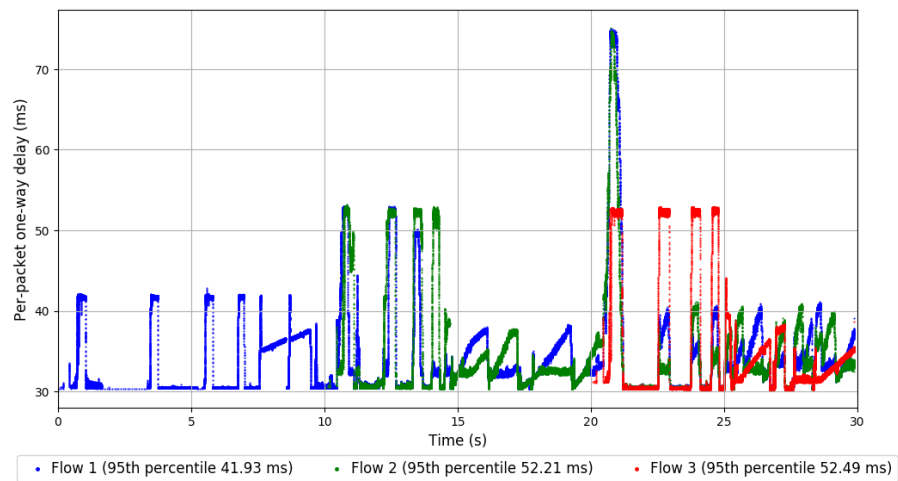
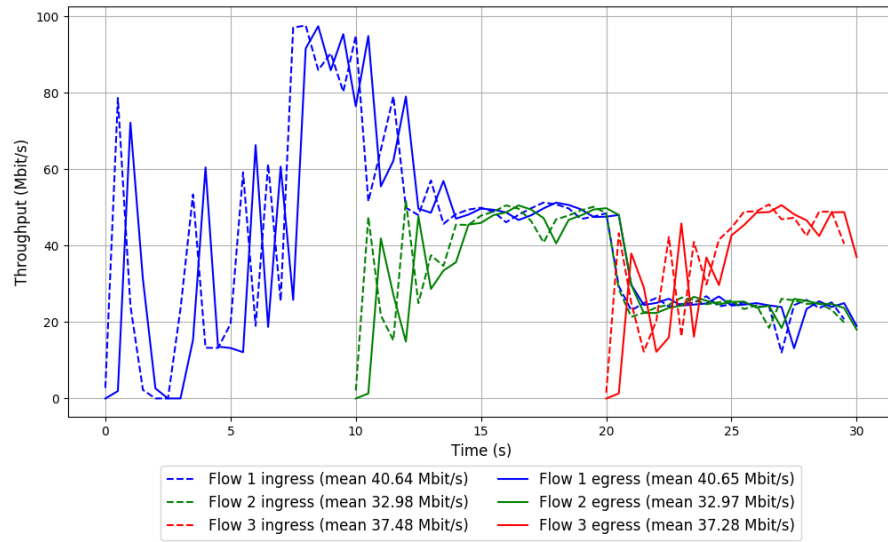
-- Flow 3:

Average throughput: 37.28 Mbit/s

95th percentile per-packet one-way delay: 52.489 ms

Loss rate: 1.15%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-25 09:25:19

End at: 2018-07-25 09:25:49

Local clock offset: 2.934 ms

Remote clock offset: 2.451 ms

Below is generated by plot.py at 2018-07-25 11:41:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.22 Mbit/s

95th percentile per-packet one-way delay: 51.817 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 42.35 Mbit/s

95th percentile per-packet one-way delay: 42.229 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 35.80 Mbit/s

95th percentile per-packet one-way delay: 52.622 ms

Loss rate: 0.37%

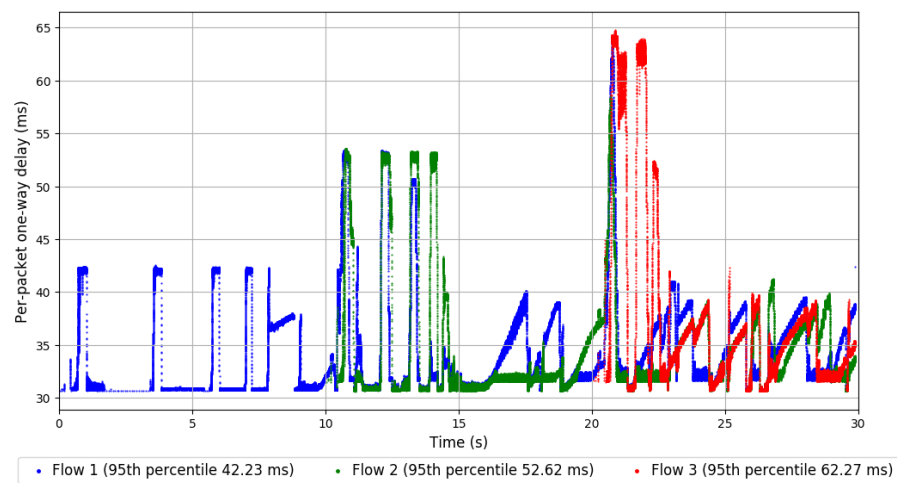
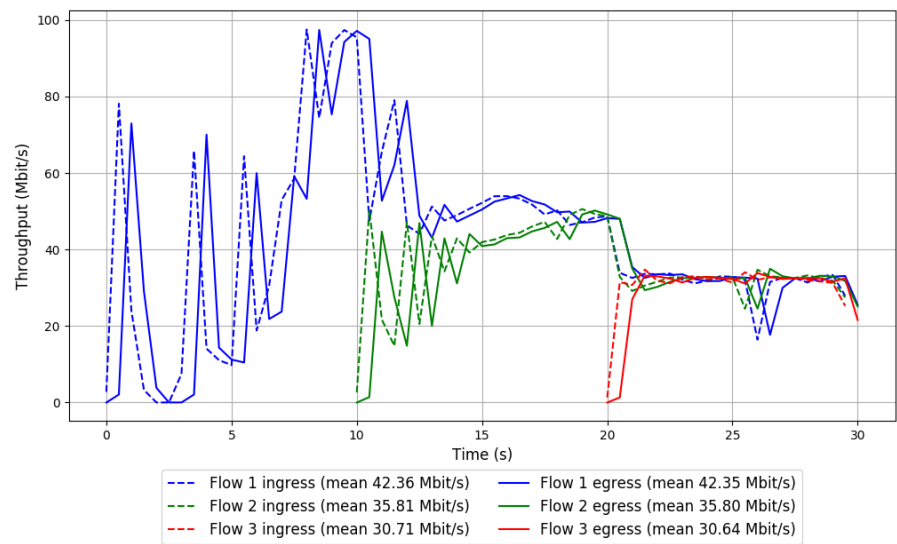
-- Flow 3:

Average throughput: 30.64 Mbit/s

95th percentile per-packet one-way delay: 62.267 ms

Loss rate: 0.89%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-25 09:48:13

End at: 2018-07-25 09:48:43

Local clock offset: 0.13 ms

Remote clock offset: 2.949 ms

Below is generated by plot.py at 2018-07-25 11:41:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.10 Mbit/s

95th percentile per-packet one-way delay: 49.028 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 52.02 Mbit/s

95th percentile per-packet one-way delay: 42.221 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 36.08 Mbit/s

95th percentile per-packet one-way delay: 52.746 ms

Loss rate: 0.38%

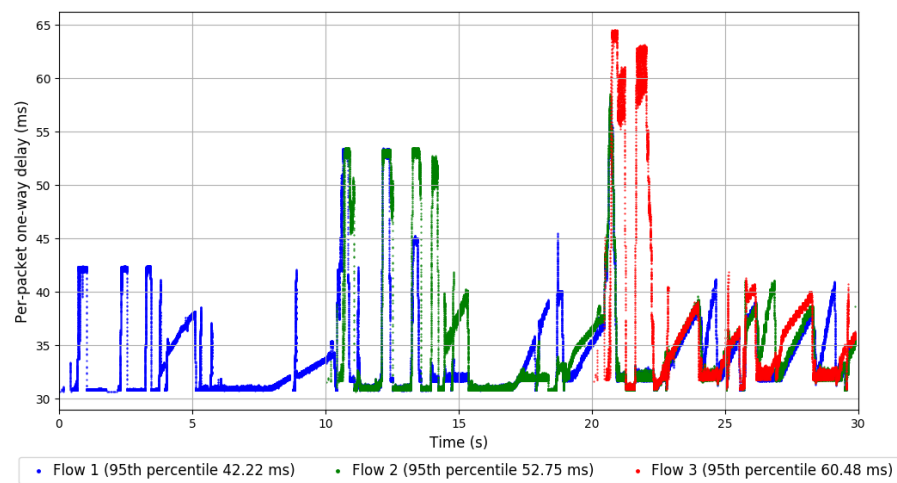
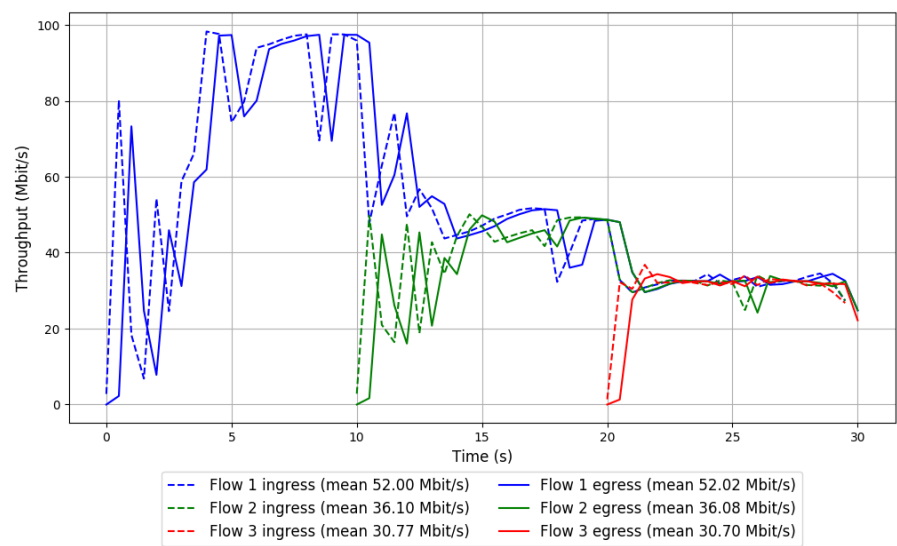
-- Flow 3:

Average throughput: 30.70 Mbit/s

95th percentile per-packet one-way delay: 60.477 ms

Loss rate: 0.88%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-25 10:11:06

End at: 2018-07-25 10:11:36

Local clock offset: -0.276 ms

Remote clock offset: 2.365 ms

Below is generated by plot.py at 2018-07-25 11:41:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.18 Mbit/s

95th percentile per-packet one-way delay: 49.334 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 51.08 Mbit/s

95th percentile per-packet one-way delay: 42.078 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 36.21 Mbit/s

95th percentile per-packet one-way delay: 52.831 ms

Loss rate: 0.38%

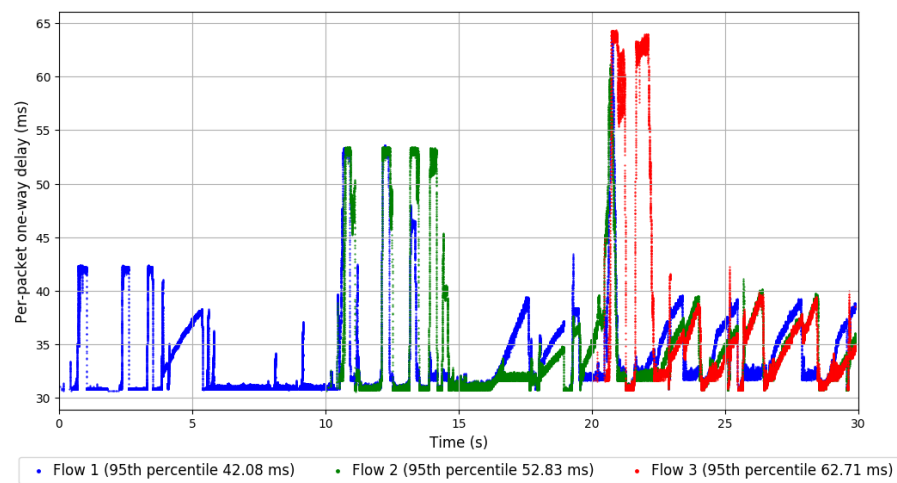
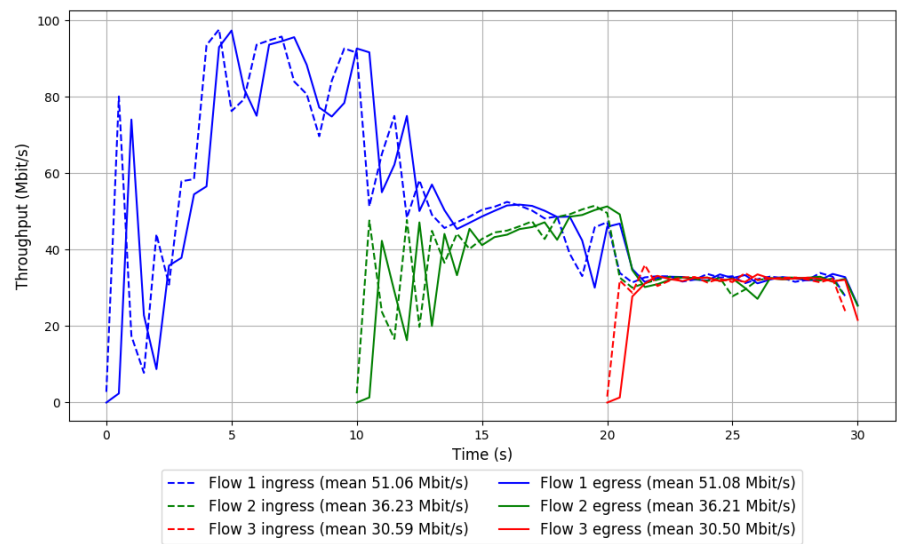
-- Flow 3:

Average throughput: 30.50 Mbit/s

95th percentile per-packet one-way delay: 62.710 ms

Loss rate: 0.92%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-25 10:33:55

End at: 2018-07-25 10:34:25

Local clock offset: -0.303 ms

Remote clock offset: 1.495 ms

Below is generated by plot.py at 2018-07-25 11:41:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.49 Mbit/s

95th percentile per-packet one-way delay: 51.643 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 43.02 Mbit/s

95th percentile per-packet one-way delay: 42.259 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 36.83 Mbit/s

95th percentile per-packet one-way delay: 52.769 ms

Loss rate: 0.38%

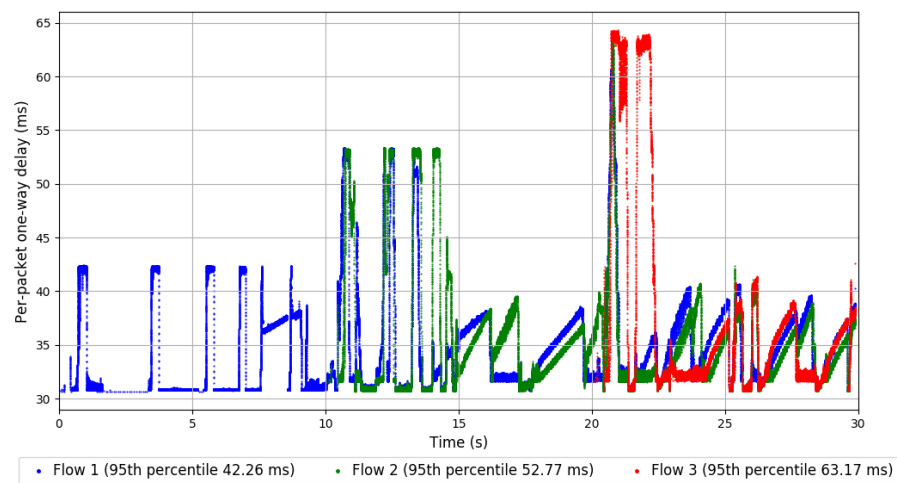
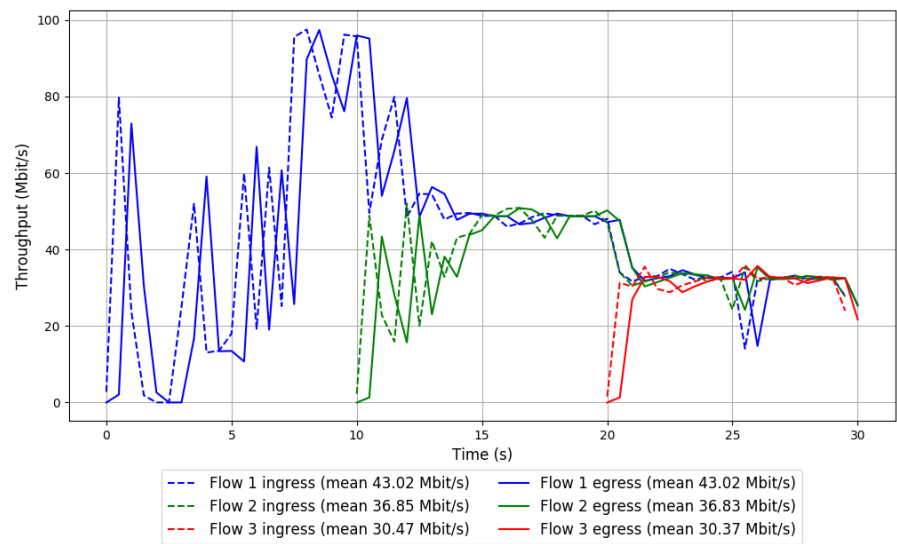
-- Flow 3:

Average throughput: 30.37 Mbit/s

95th percentile per-packet one-way delay: 63.166 ms

Loss rate: 0.95%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-25 10:56:45

End at: 2018-07-25 10:57:15

Local clock offset: 0.018 ms

Remote clock offset: 1.208 ms

Below is generated by plot.py at 2018-07-25 11:41:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.05 Mbit/s

95th percentile per-packet one-way delay: 52.855 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 40.42 Mbit/s

95th percentile per-packet one-way delay: 42.404 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 32.73 Mbit/s

95th percentile per-packet one-way delay: 52.937 ms

Loss rate: 0.36%

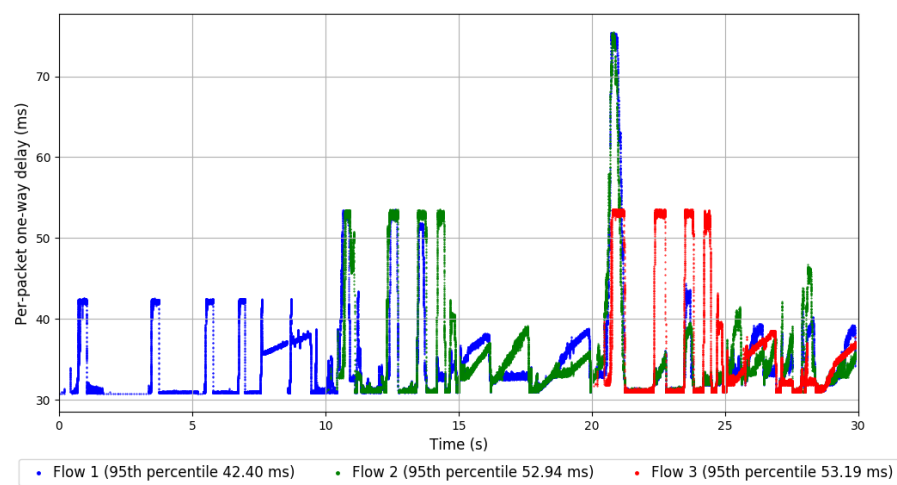
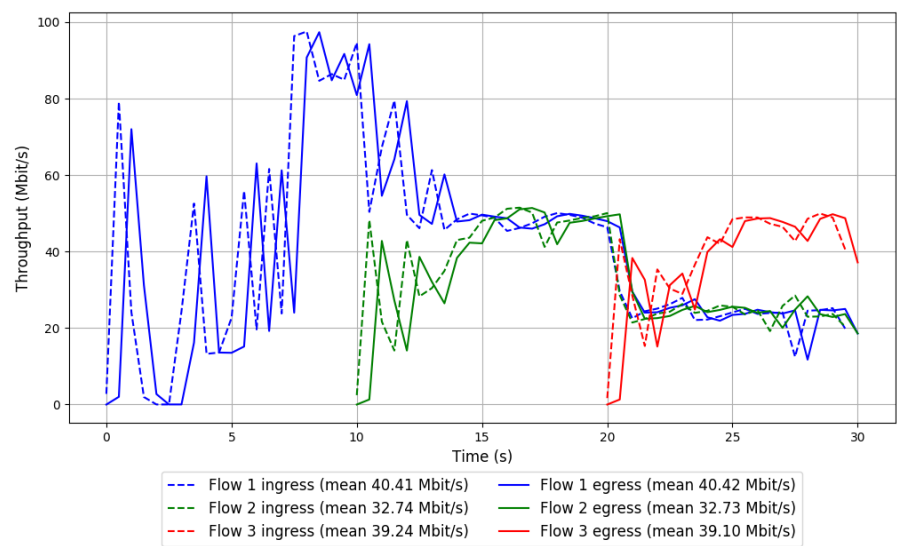
-- Flow 3:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 53.191 ms

Loss rate: 1.01%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-25 11:19:38

End at: 2018-07-25 11:20:08

Local clock offset: 3.038 ms

Remote clock offset: 2.153 ms

Below is generated by plot.py at 2018-07-25 11:41:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.93 Mbit/s

95th percentile per-packet one-way delay: 52.515 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 43.15 Mbit/s

95th percentile per-packet one-way delay: 42.335 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 35.66 Mbit/s

95th percentile per-packet one-way delay: 52.803 ms

Loss rate: 0.47%

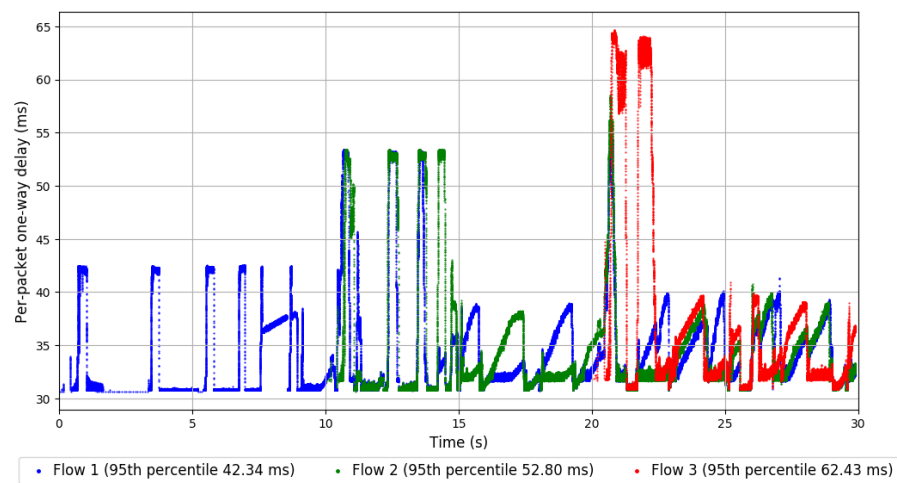
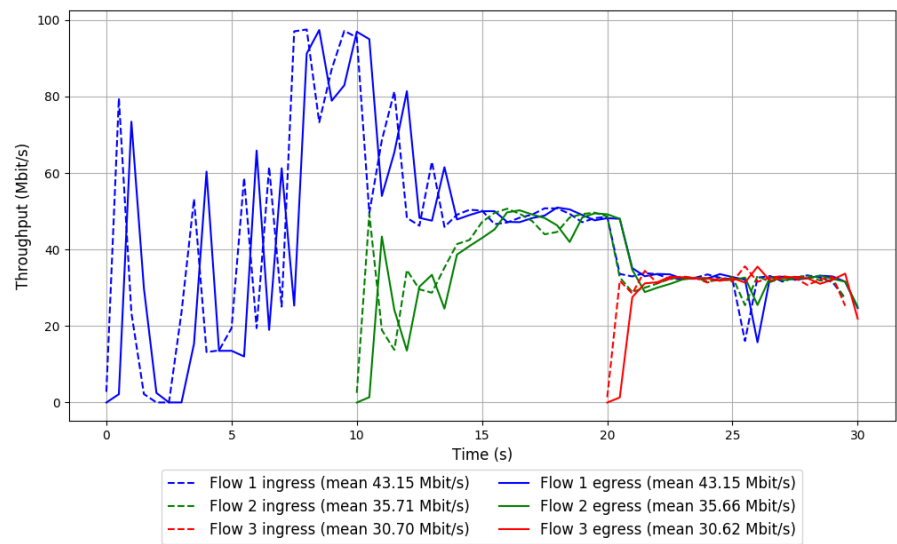
-- Flow 3:

Average throughput: 30.62 Mbit/s

95th percentile per-packet one-way delay: 62.430 ms

Loss rate: 0.92%

Run 10: Report of QUIC Cubic — Data Link

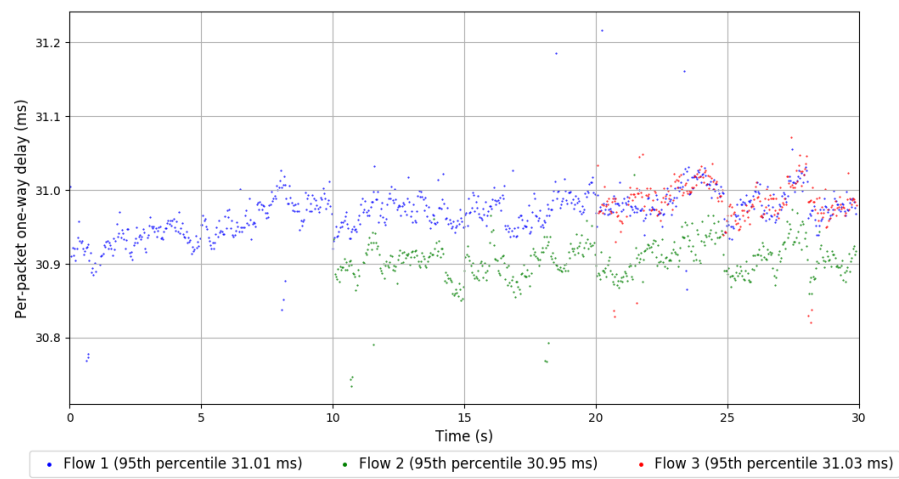
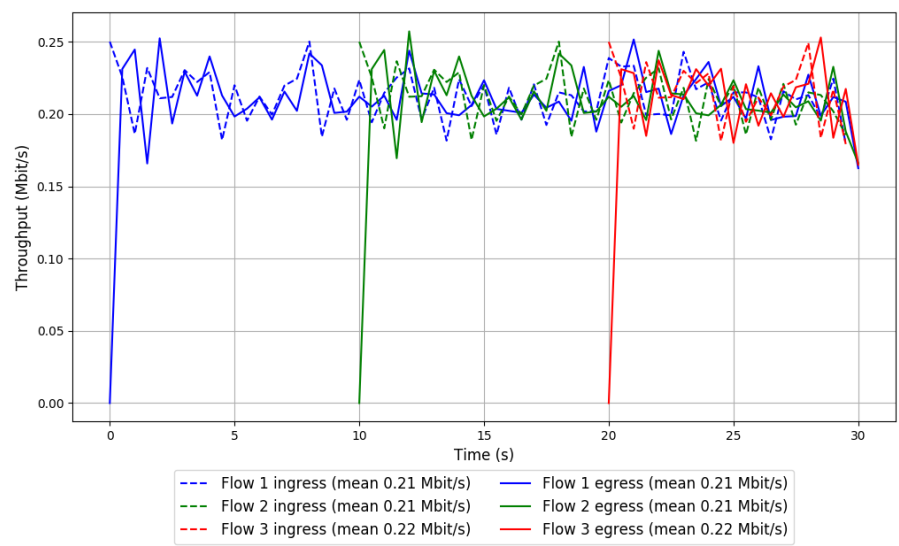


```
Run 1: Statistics of SReAM

Start at: 2018-07-25 07:39:52
End at: 2018-07-25 07:40:22
Local clock offset: 3.312 ms
Remote clock offset: 3.274 ms

# Below is generated by plot.py at 2018-07-25 11:41:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 31.013 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.014 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.945 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.027 ms
Loss rate: 0.71%
```


Run 1: Report of SReAM — Data Link

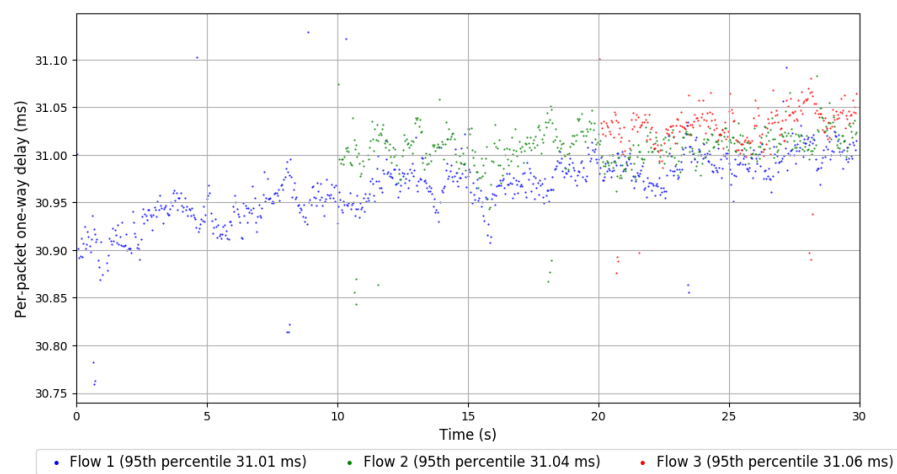
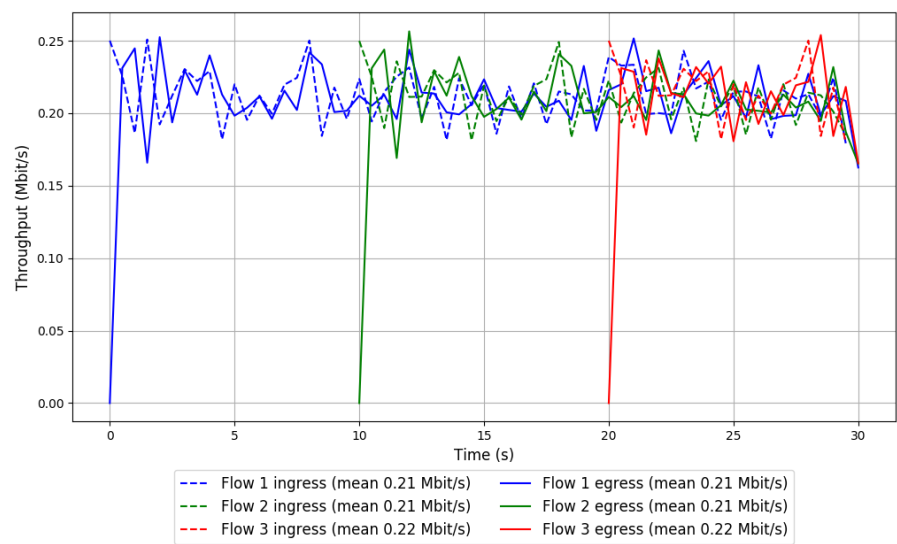


```
Run 2: Statistics of SReAM

Start at: 2018-07-25 08:02:48
End at: 2018-07-25 08:03:18
Local clock offset: 3.303 ms
Remote clock offset: 5.82 ms

# Below is generated by plot.py at 2018-07-25 11:41:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 31.043 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.011 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.036 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.062 ms
Loss rate: 0.71%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-07-25 08:25:43

End at: 2018-07-25 08:26:13

Local clock offset: 2.805 ms

Remote clock offset: 4.041 ms

Below is generated by plot.py at 2018-07-25 11:41:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.947 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.953 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.911 ms

Loss rate: 0.39%

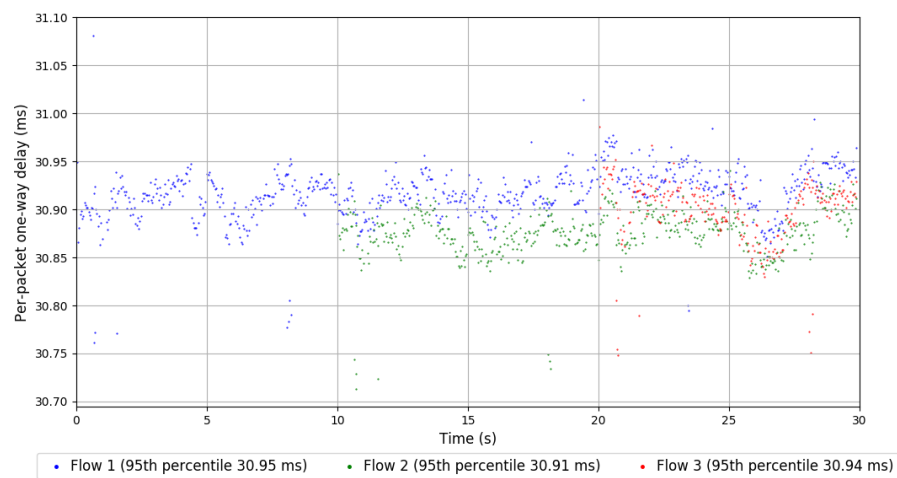
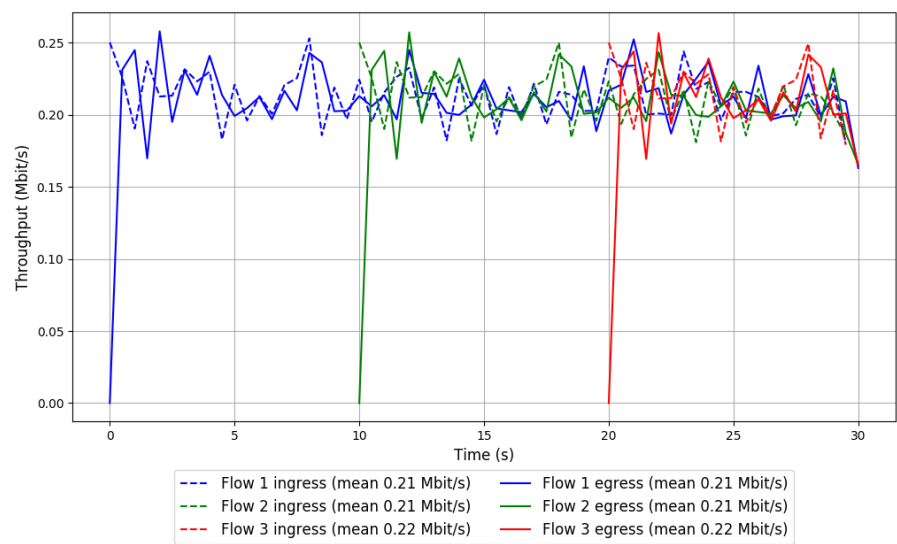
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.937 ms

Loss rate: 0.71%

Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-07-25 08:48:51

End at: 2018-07-25 08:49:21

Local clock offset: -0.209 ms

Remote clock offset: 2.96 ms

Below is generated by plot.py at 2018-07-25 11:41:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.945 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.931 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.866 ms

Loss rate: 0.40%

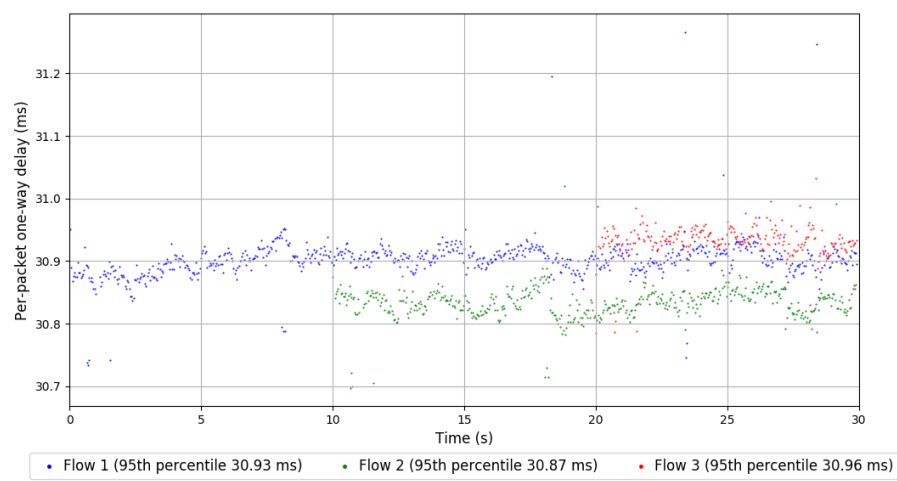
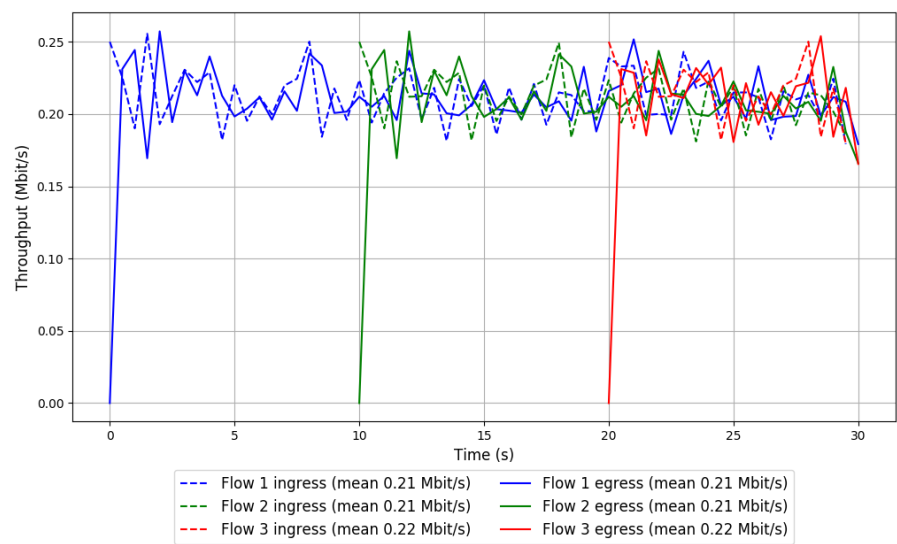
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.963 ms

Loss rate: 0.71%

Run 4: Report of SCRaM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-07-25 09:11:47

End at: 2018-07-25 09:12:17

Local clock offset: 1.936 ms

Remote clock offset: 2.773 ms

Below is generated by plot.py at 2018-07-25 11:41:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.858 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.865 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.748 ms

Loss rate: 0.39%

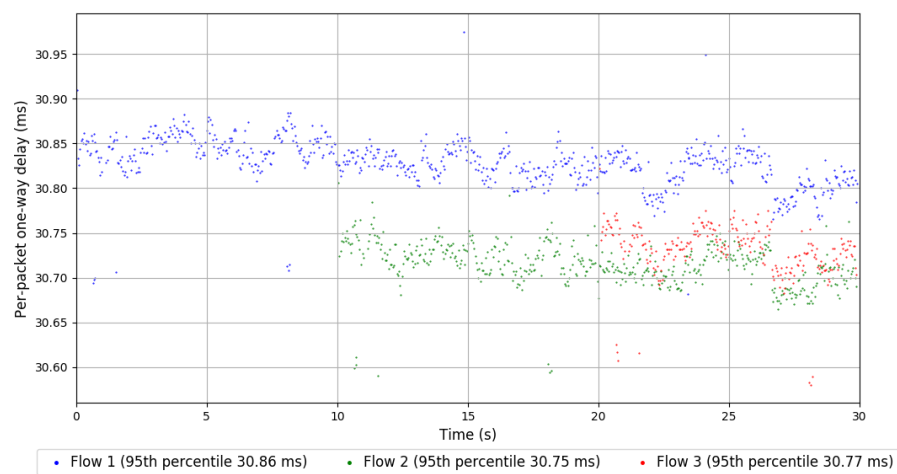
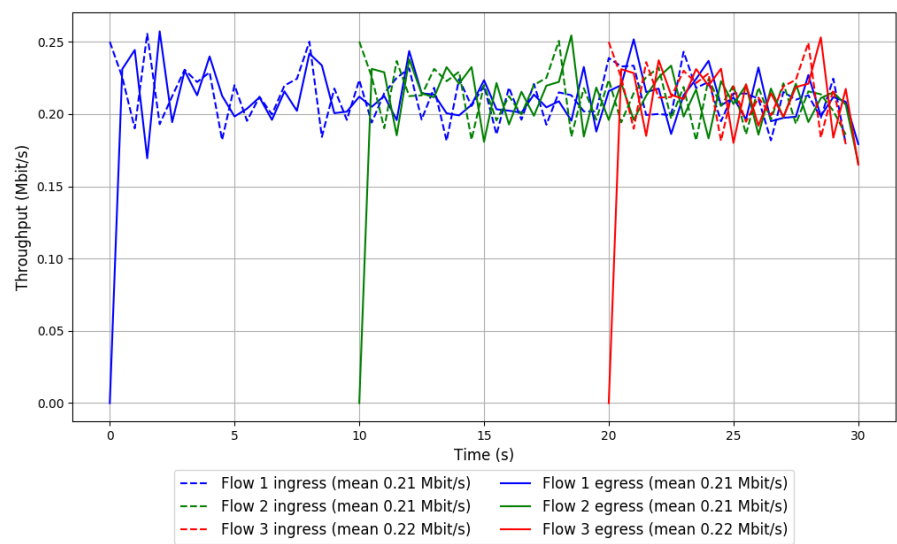
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.765 ms

Loss rate: 0.71%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-25 09:34:44

End at: 2018-07-25 09:35:14

Local clock offset: 2.19 ms

Remote clock offset: 2.524 ms

Below is generated by plot.py at 2018-07-25 11:41:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 31.272 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.282 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.211 ms

Loss rate: 0.40%

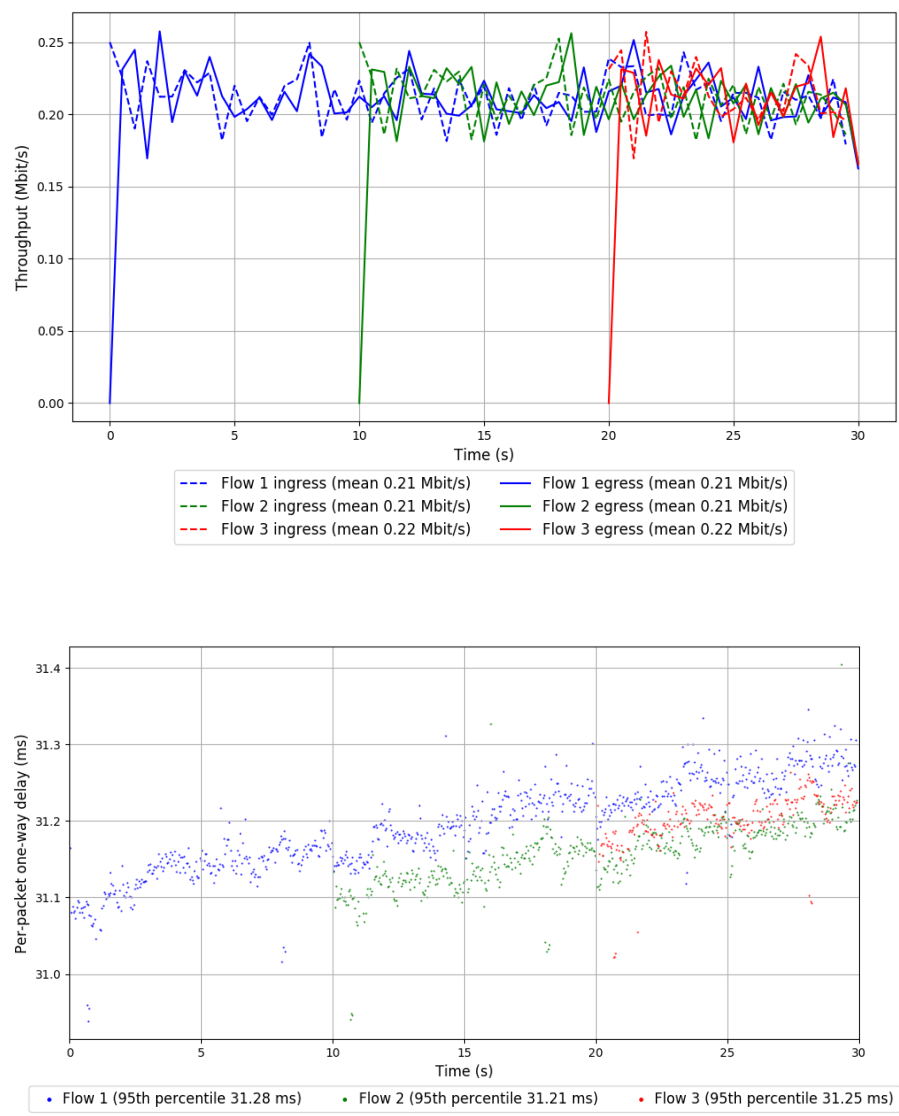
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.245 ms

Loss rate: 0.71%

Run 6: Report of SReAM — Data Link

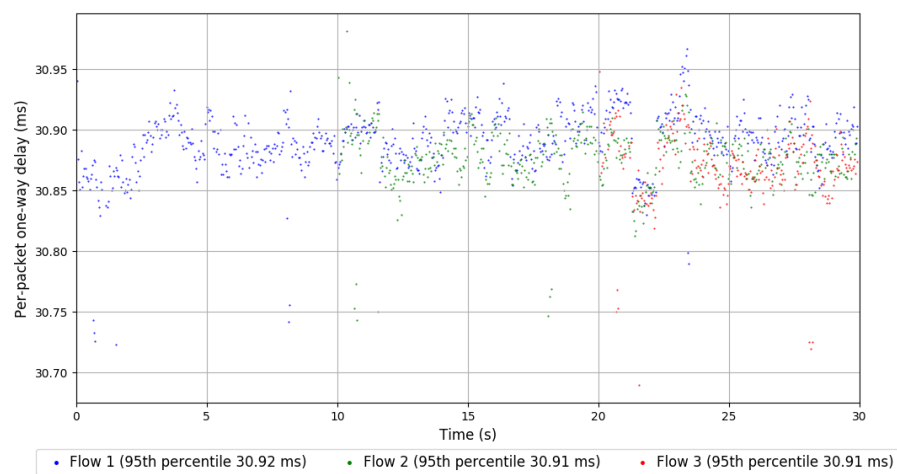
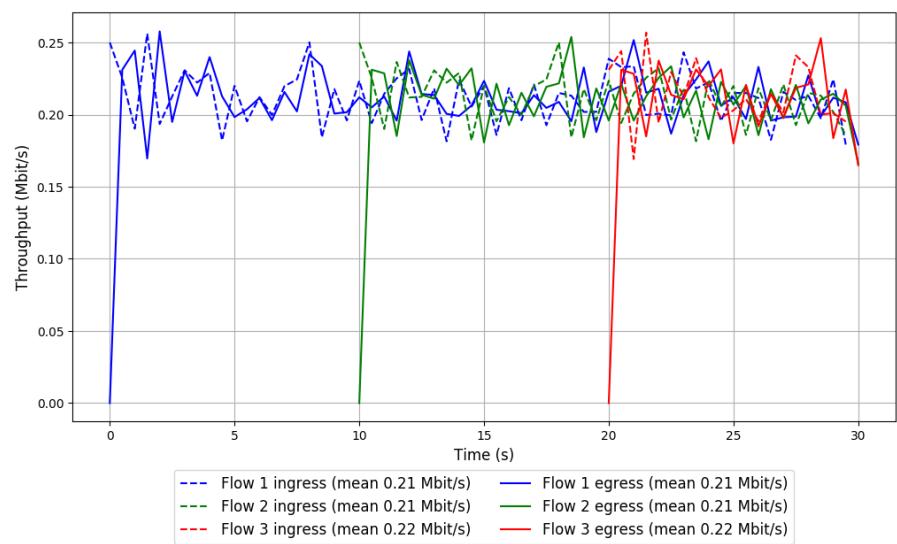


Run 7: Statistics of SReAM

Start at: 2018-07-25 09:57:37
End at: 2018-07-25 09:58:07
Local clock offset: -0.449 ms
Remote clock offset: 2.407 ms

Below is generated by plot.py at 2018-07-25 11:41:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 30.919 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.924 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.908 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.909 ms
Loss rate: 0.71%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-07-25 10:20:29

End at: 2018-07-25 10:20:59

Local clock offset: -0.211 ms

Remote clock offset: 2.484 ms

Below is generated by plot.py at 2018-07-25 11:41:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.880 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.882 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.882 ms

Loss rate: 0.40%

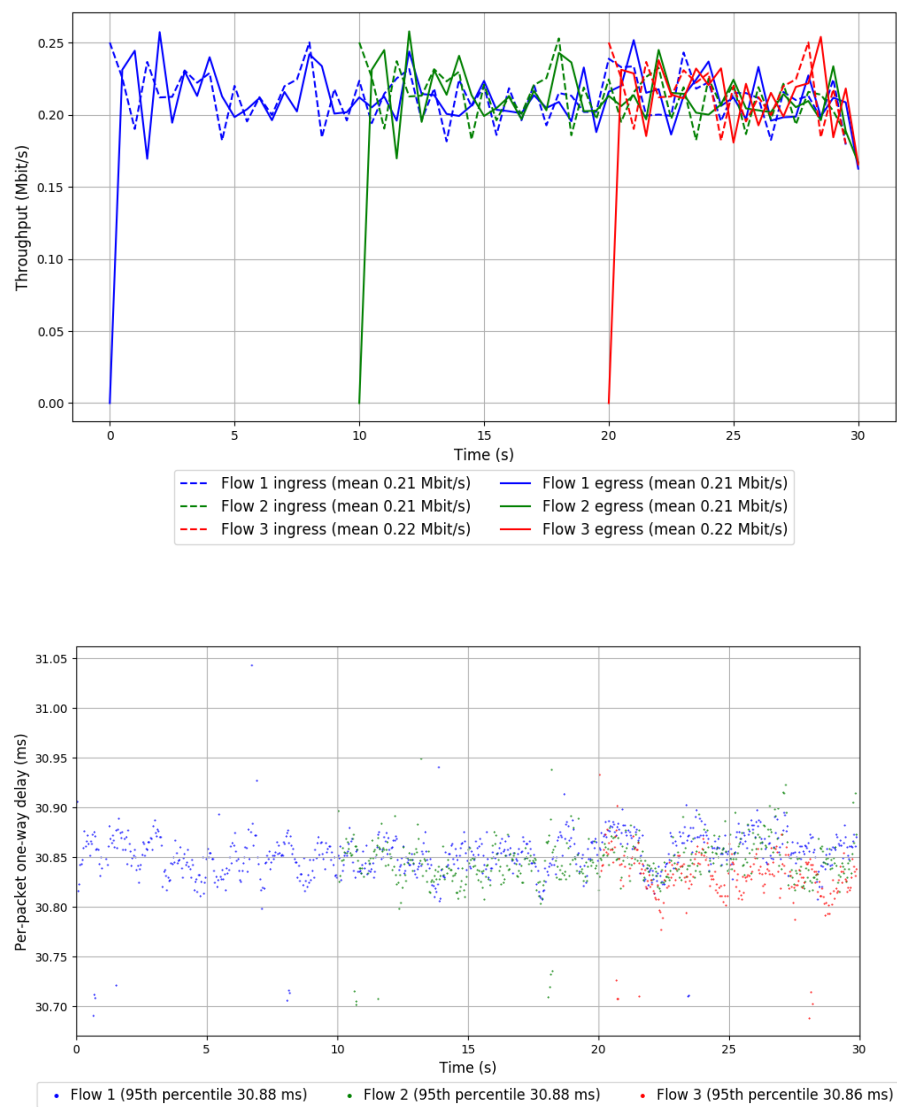
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.864 ms

Loss rate: 0.71%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-25 10:43:18

End at: 2018-07-25 10:43:48

Local clock offset: -0.001 ms

Remote clock offset: 1.253 ms

Below is generated by plot.py at 2018-07-25 11:41:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.908 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.909 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.909 ms

Loss rate: 0.39%

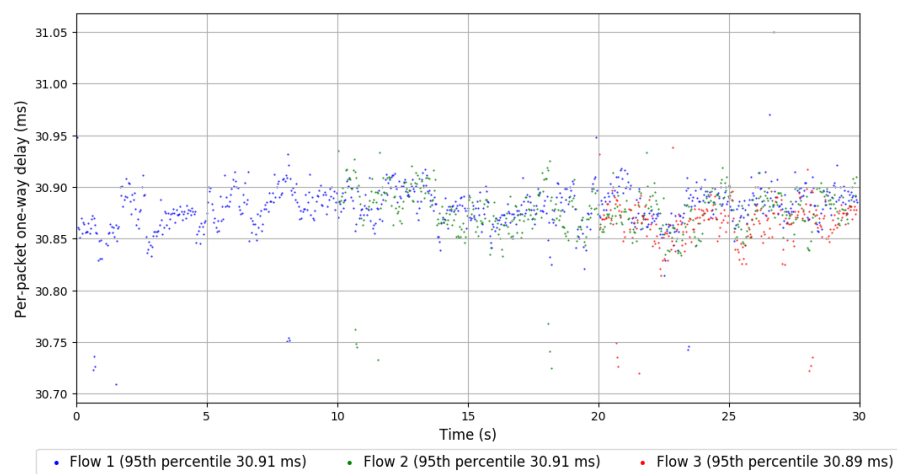
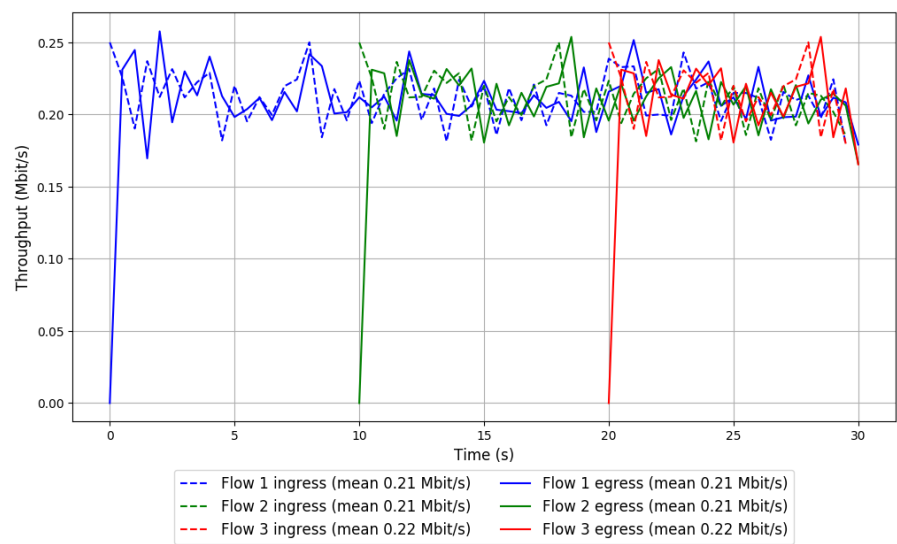
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.893 ms

Loss rate: 0.71%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-25 11:06:08

End at: 2018-07-25 11:06:38

Local clock offset: 1.292 ms

Remote clock offset: 1.775 ms

Below is generated by plot.py at 2018-07-25 11:41:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.811 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.823 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.720 ms

Loss rate: 0.39%

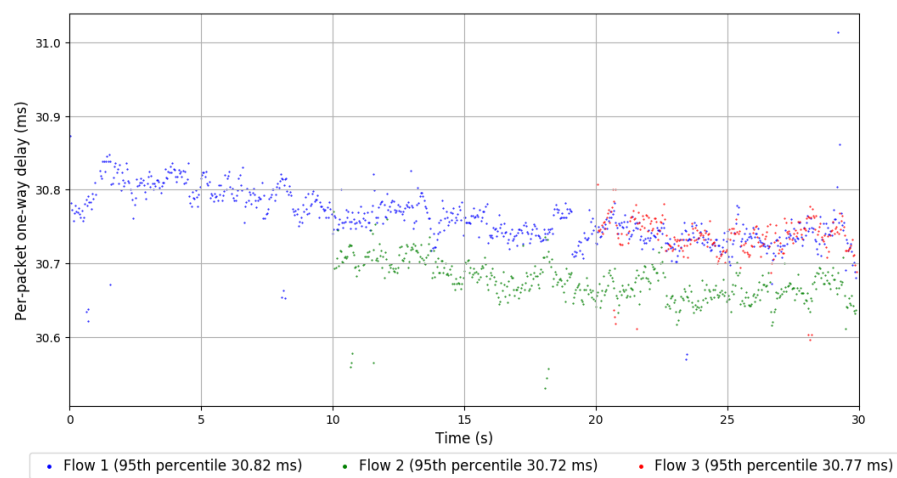
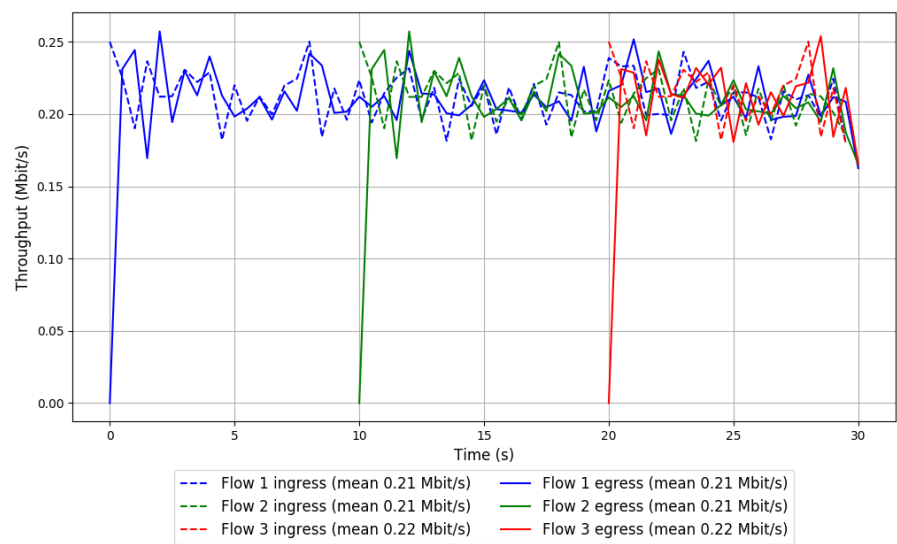
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.769 ms

Loss rate: 0.71%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-25 07:49:21

End at: 2018-07-25 07:49:51

Local clock offset: 3.393 ms

Remote clock offset: 4.175 ms

Below is generated by plot.py at 2018-07-25 11:41:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.92 Mbit/s

95th percentile per-packet one-way delay: 39.386 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 10.62 Mbit/s

95th percentile per-packet one-way delay: 38.797 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 10.43 Mbit/s

95th percentile per-packet one-way delay: 39.884 ms

Loss rate: 0.30%

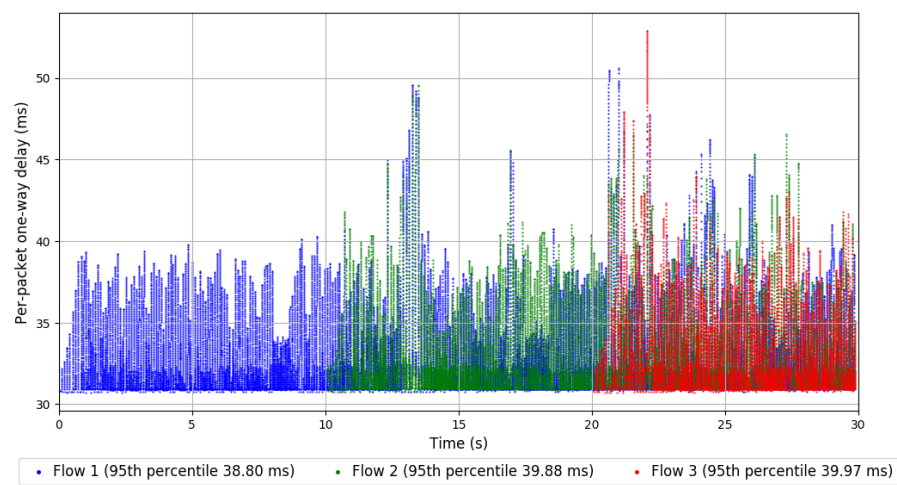
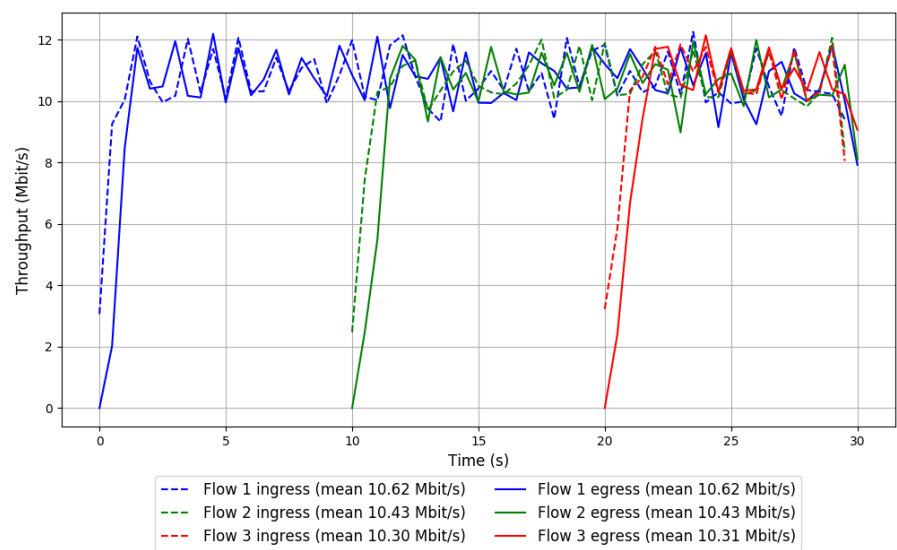
-- Flow 3:

Average throughput: 10.31 Mbit/s

95th percentile per-packet one-way delay: 39.972 ms

Loss rate: 0.28%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-07-25 08:12:16

End at: 2018-07-25 08:12:46

Local clock offset: 3.043 ms

Remote clock offset: 4.491 ms

Below is generated by plot.py at 2018-07-25 11:41:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.83 Mbit/s

95th percentile per-packet one-way delay: 37.653 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 10.58 Mbit/s

95th percentile per-packet one-way delay: 37.592 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 10.42 Mbit/s

95th percentile per-packet one-way delay: 37.823 ms

Loss rate: 0.38%

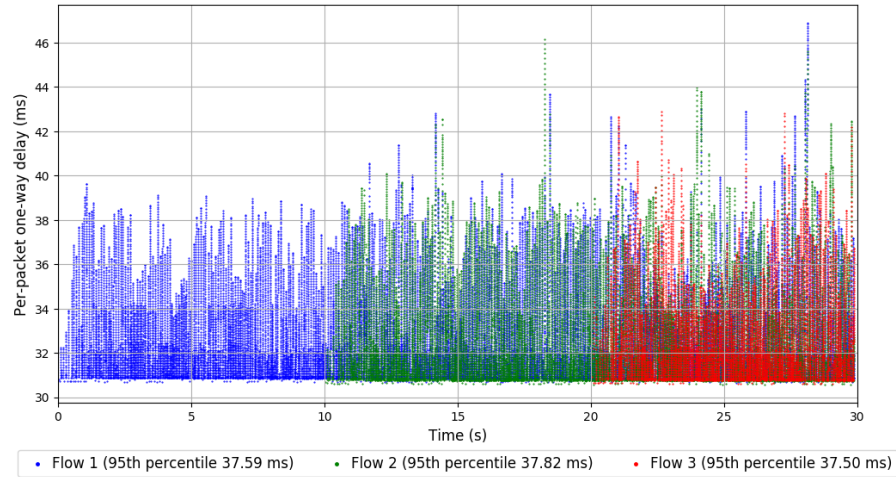
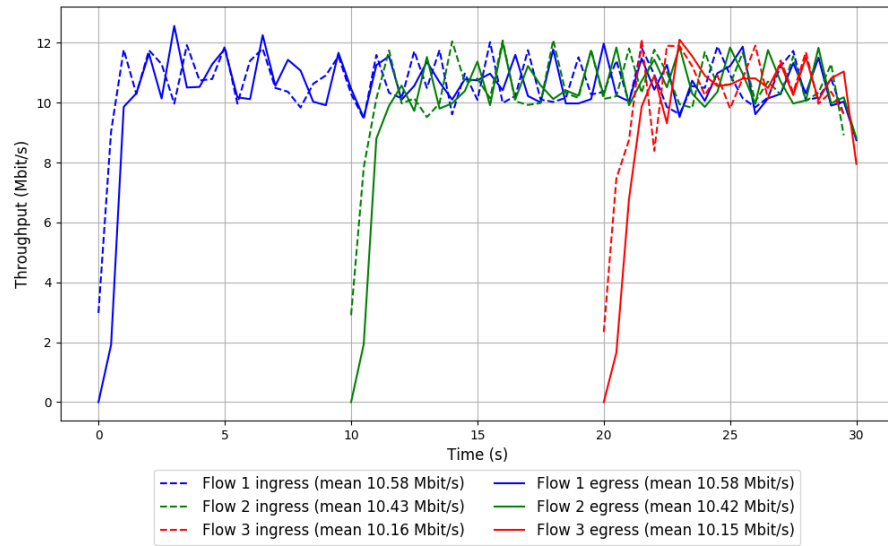
-- Flow 3:

Average throughput: 10.15 Mbit/s

95th percentile per-packet one-way delay: 37.497 ms

Loss rate: 0.99%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-07-25 08:35:19

End at: 2018-07-25 08:35:49

Local clock offset: 1.596 ms

Remote clock offset: 4.575 ms

Below is generated by plot.py at 2018-07-25 11:41:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.74 Mbit/s

95th percentile per-packet one-way delay: 38.330 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 10.48 Mbit/s

95th percentile per-packet one-way delay: 38.063 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 10.55 Mbit/s

95th percentile per-packet one-way delay: 38.572 ms

Loss rate: 0.08%

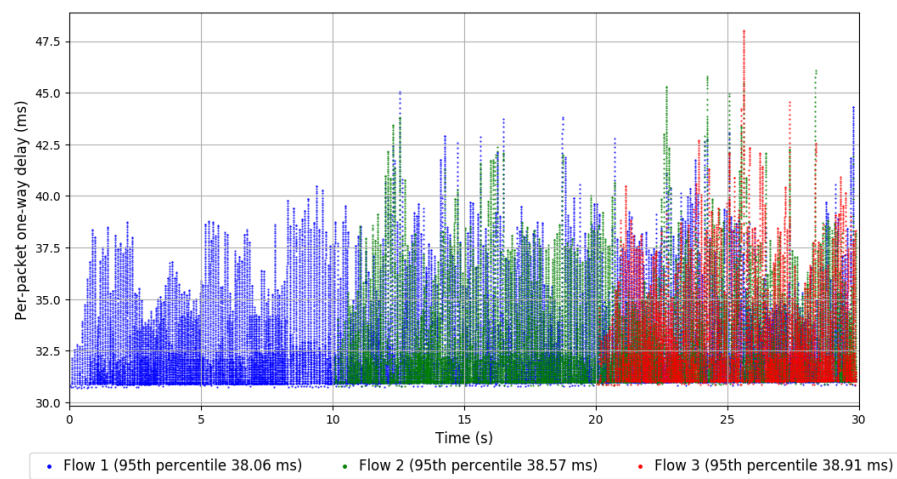
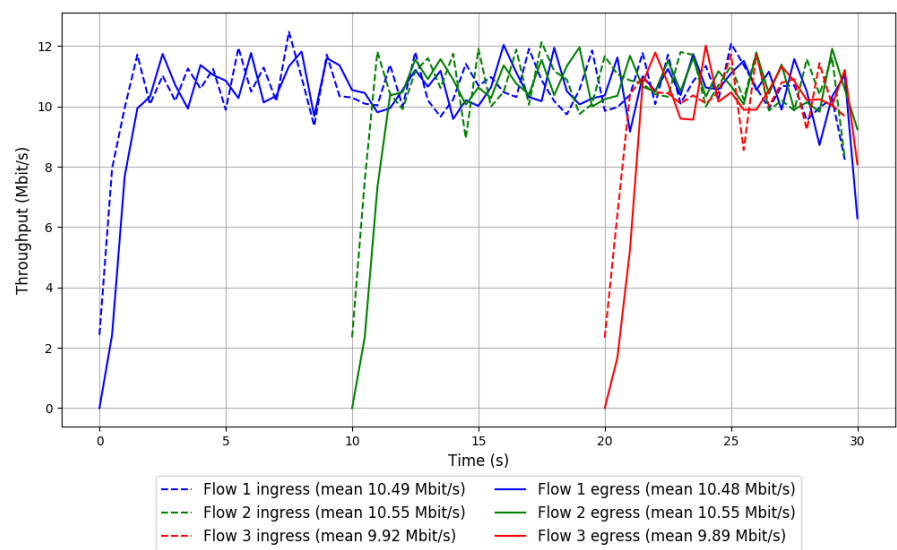
-- Flow 3:

Average throughput: 9.89 Mbit/s

95th percentile per-packet one-way delay: 38.914 ms

Loss rate: 0.93%

Run 3: Report of Sprout — Data Link

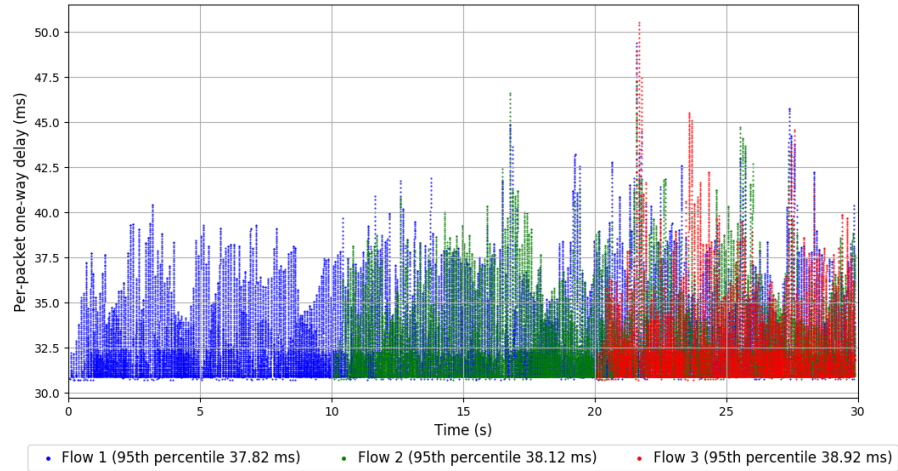
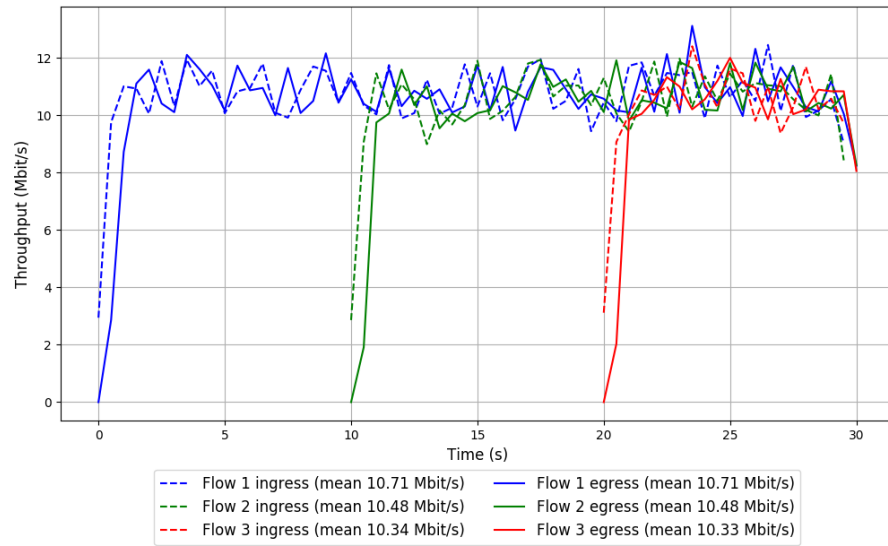


Run 4: Statistics of Sprout

Start at: 2018-07-25 08:58:19
End at: 2018-07-25 08:58:49
Local clock offset: -0.868 ms
Remote clock offset: 2.526 ms

```
# Below is generated by plot.py at 2018-07-25 11:41:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.07 Mbit/s
95th percentile per-packet one-way delay: 38.035 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 10.71 Mbit/s
95th percentile per-packet one-way delay: 37.819 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 10.48 Mbit/s
95th percentile per-packet one-way delay: 38.115 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 10.33 Mbit/s
95th percentile per-packet one-way delay: 38.917 ms
Loss rate: 0.81%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-07-25 09:21:17

End at: 2018-07-25 09:21:47

Local clock offset: 2.806 ms

Remote clock offset: 2.493 ms

Below is generated by plot.py at 2018-07-25 11:41:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.91 Mbit/s

95th percentile per-packet one-way delay: 38.262 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 10.64 Mbit/s

95th percentile per-packet one-way delay: 37.721 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 10.40 Mbit/s

95th percentile per-packet one-way delay: 38.346 ms

Loss rate: 0.47%

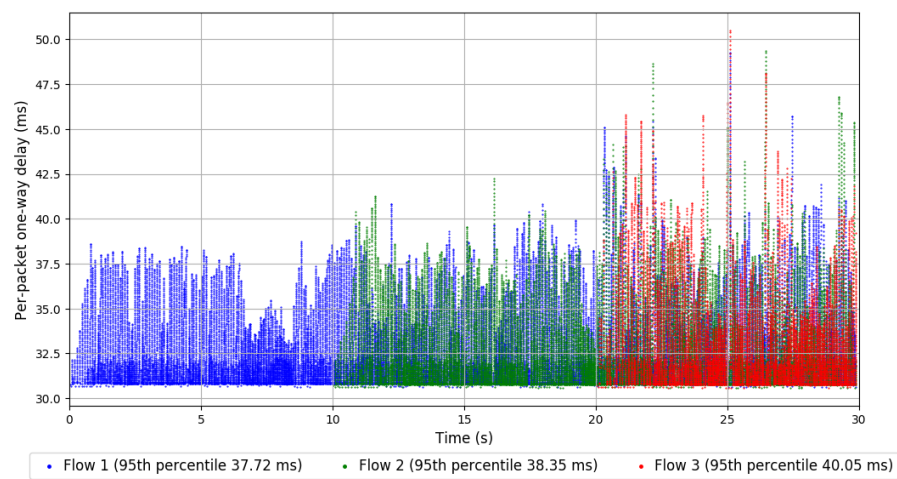
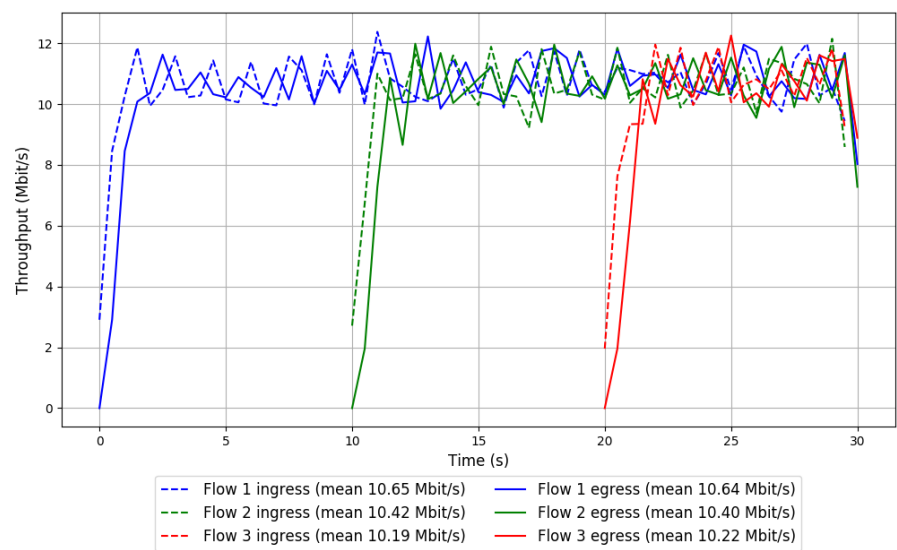
-- Flow 3:

Average throughput: 10.22 Mbit/s

95th percentile per-packet one-way delay: 40.045 ms

Loss rate: 0.33%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-25 09:44:12

End at: 2018-07-25 09:44:42

Local clock offset: 0.404 ms

Remote clock offset: 2.78 ms

Below is generated by plot.py at 2018-07-25 11:41:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.68 Mbit/s

95th percentile per-packet one-way delay: 38.117 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 10.43 Mbit/s

95th percentile per-packet one-way delay: 37.807 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 10.42 Mbit/s

95th percentile per-packet one-way delay: 38.333 ms

Loss rate: 0.12%

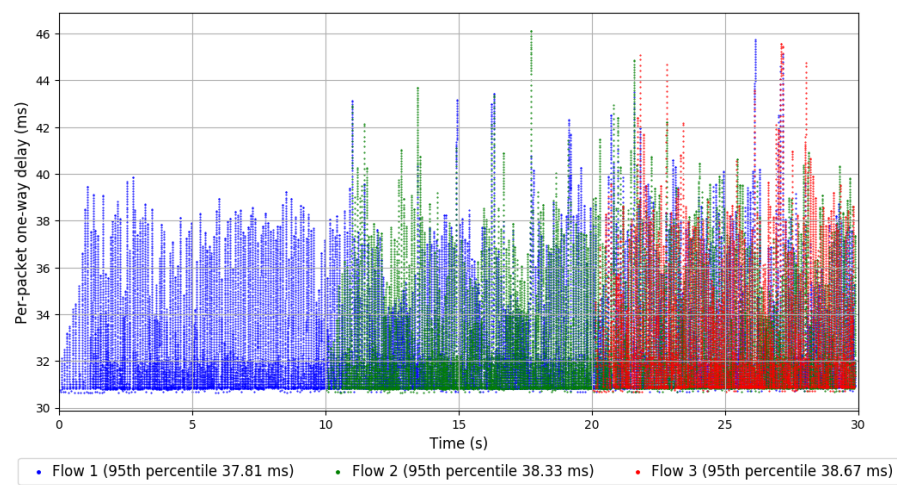
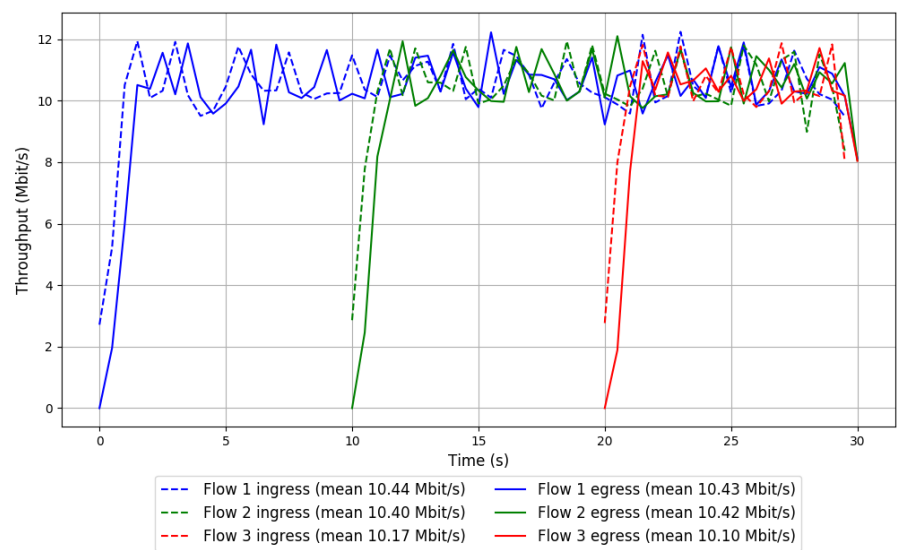
-- Flow 3:

Average throughput: 10.10 Mbit/s

95th percentile per-packet one-way delay: 38.669 ms

Loss rate: 0.82%

Run 6: Report of Sprout — Data Link

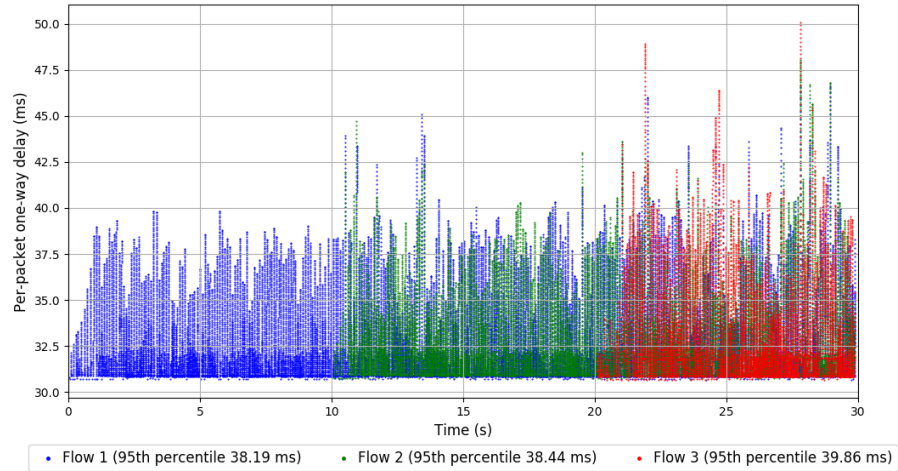
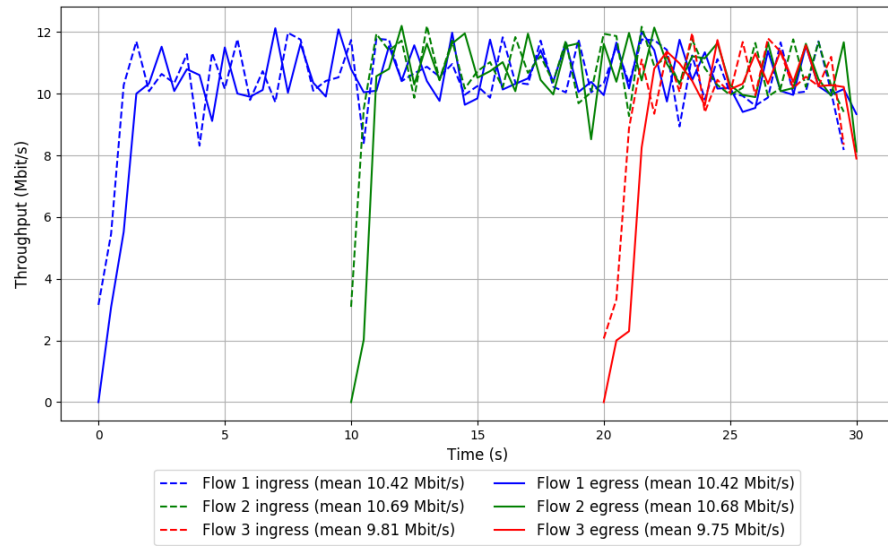


Run 7: Statistics of Sprout

Start at: 2018-07-25 10:07:05
End at: 2018-07-25 10:07:35
Local clock offset: -0.288 ms
Remote clock offset: 2.325 ms

```
# Below is generated by plot.py at 2018-07-25 11:41:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.73 Mbit/s
95th percentile per-packet one-way delay: 38.549 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 10.42 Mbit/s
95th percentile per-packet one-way delay: 38.190 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 10.68 Mbit/s
95th percentile per-packet one-way delay: 38.435 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 9.75 Mbit/s
95th percentile per-packet one-way delay: 39.859 ms
Loss rate: 0.88%
```


Run 7: Report of Sprout — Data Link

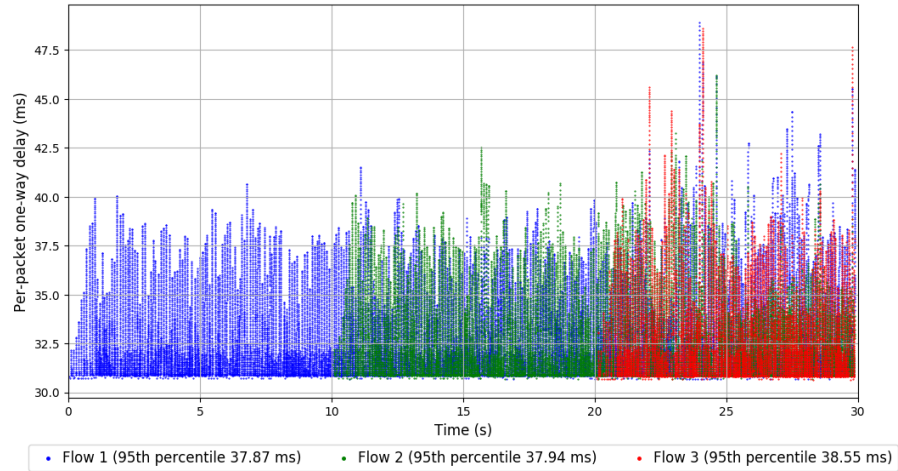
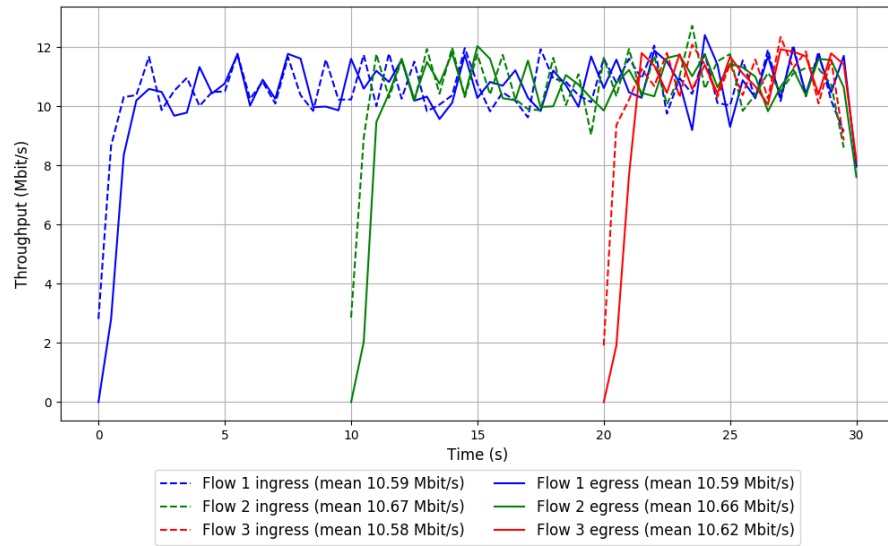


Run 8: Statistics of Sprout

Start at: 2018-07-25 10:29:54
End at: 2018-07-25 10:30:24
Local clock offset: -0.319 ms
Remote clock offset: 1.733 ms

Below is generated by plot.py at 2018-07-25 11:41:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.17 Mbit/s
95th percentile per-packet one-way delay: 37.984 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 10.59 Mbit/s
95th percentile per-packet one-way delay: 37.868 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 10.66 Mbit/s
95th percentile per-packet one-way delay: 37.939 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 10.62 Mbit/s
95th percentile per-packet one-way delay: 38.545 ms
Loss rate: 0.42%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-25 10:52:44

End at: 2018-07-25 10:53:14

Local clock offset: 0.041 ms

Remote clock offset: 1.201 ms

Below is generated by plot.py at 2018-07-25 11:42:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.85 Mbit/s

95th percentile per-packet one-way delay: 38.171 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 10.67 Mbit/s

95th percentile per-packet one-way delay: 37.496 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 10.37 Mbit/s

95th percentile per-packet one-way delay: 39.072 ms

Loss rate: 0.47%

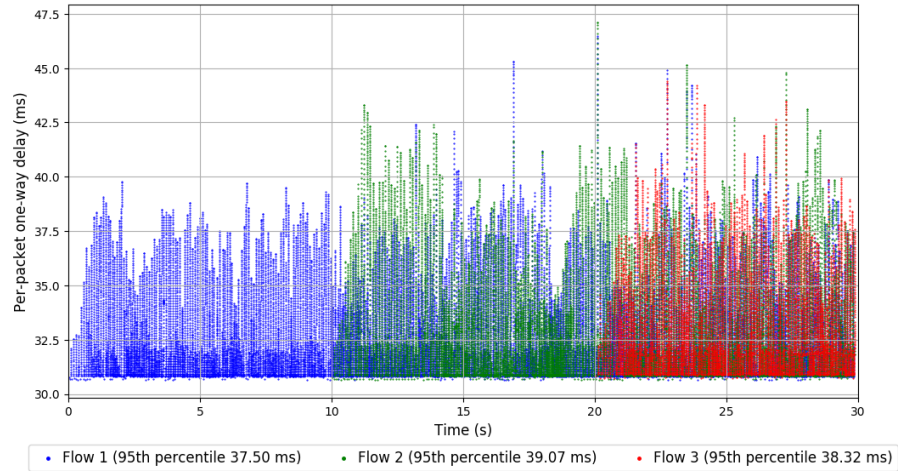
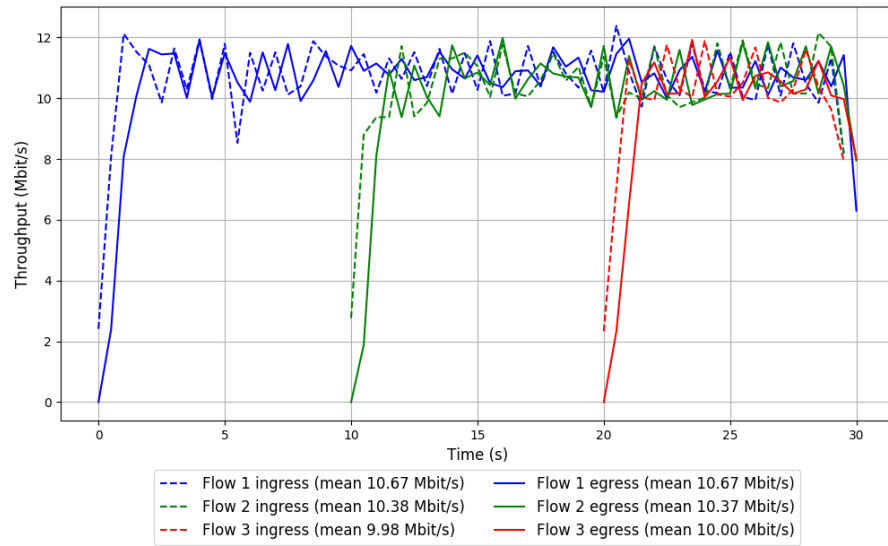
-- Flow 3:

Average throughput: 10.00 Mbit/s

95th percentile per-packet one-way delay: 38.317 ms

Loss rate: 0.13%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-25 11:15:36

End at: 2018-07-25 11:16:06

Local clock offset: 2.683 ms

Remote clock offset: 2.044 ms

Below is generated by plot.py at 2018-07-25 11:42:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.02 Mbit/s

95th percentile per-packet one-way delay: 38.005 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 10.67 Mbit/s

95th percentile per-packet one-way delay: 37.557 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 10.42 Mbit/s

95th percentile per-packet one-way delay: 38.596 ms

Loss rate: 0.49%

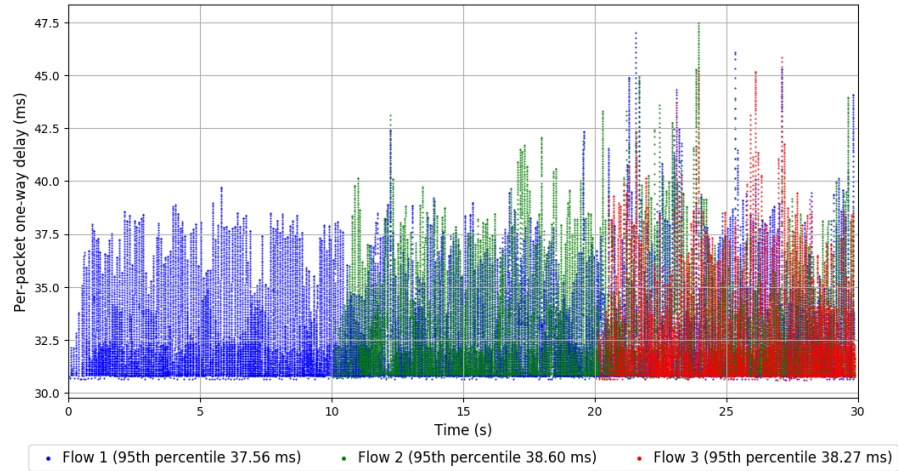
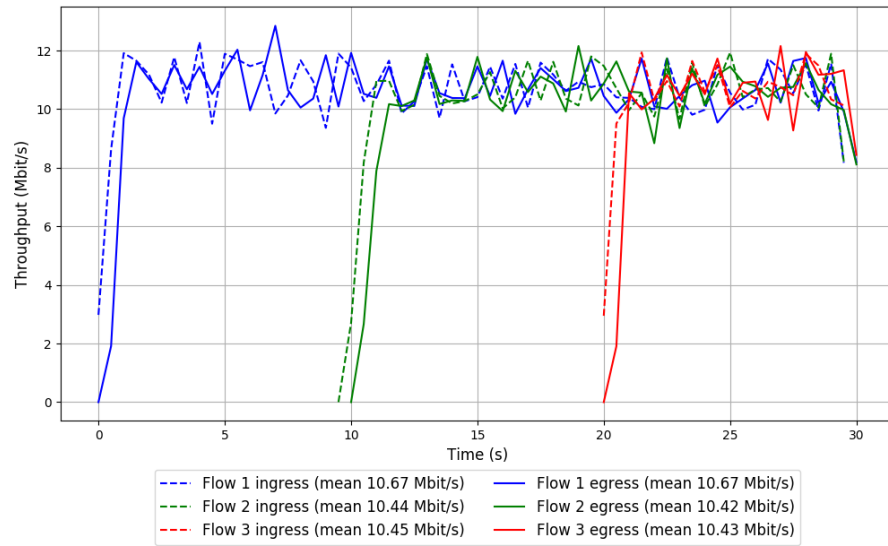
-- Flow 3:

Average throughput: 10.43 Mbit/s

95th percentile per-packet one-way delay: 38.275 ms

Loss rate: 0.82%

Run 10: Report of Sprout — Data Link

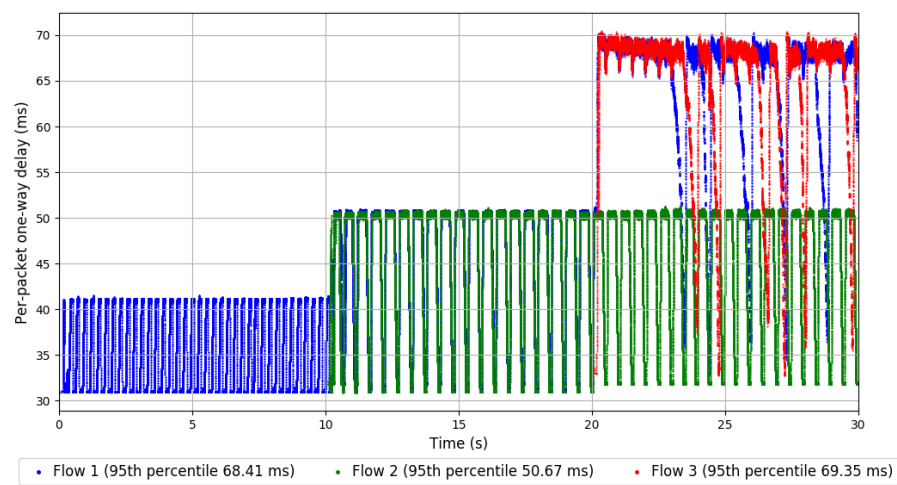
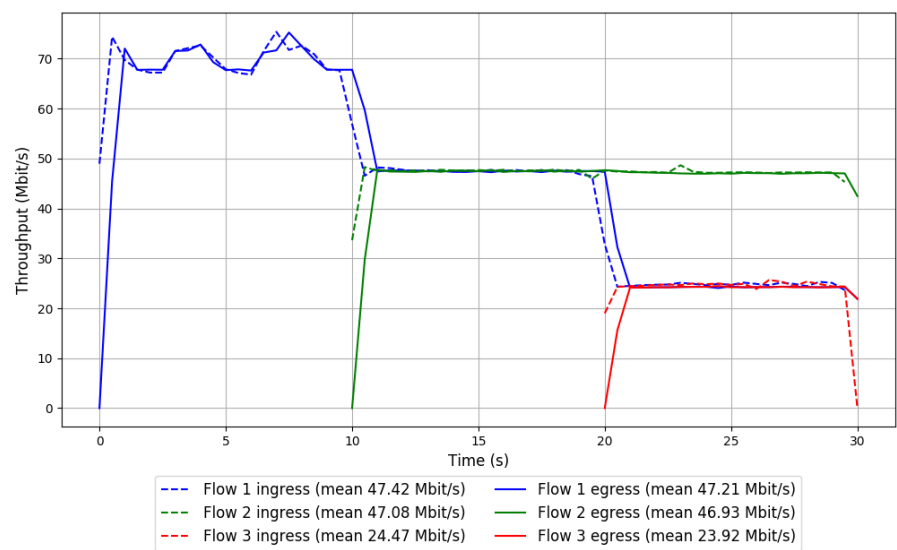


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-25 07:50:40
End at: 2018-07-25 07:51:10
Local clock offset: 3.415 ms
Remote clock offset: 4.287 ms

# Below is generated by plot.py at 2018-07-25 11:43:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.37 Mbit/s
95th percentile per-packet one-way delay: 68.546 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 47.21 Mbit/s
95th percentile per-packet one-way delay: 68.411 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 46.93 Mbit/s
95th percentile per-packet one-way delay: 50.669 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 23.92 Mbit/s
95th percentile per-packet one-way delay: 69.350 ms
Loss rate: 3.08%
```


Run 1: Report of TaoVA-100x — Data Link

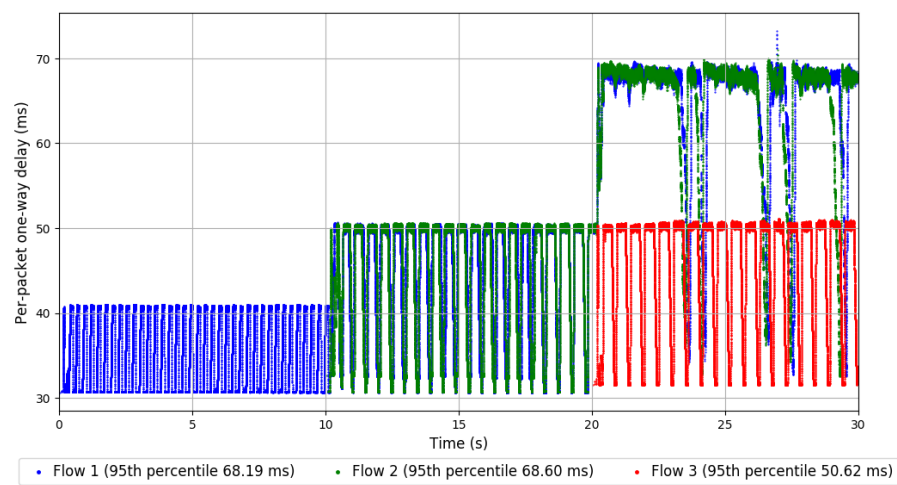
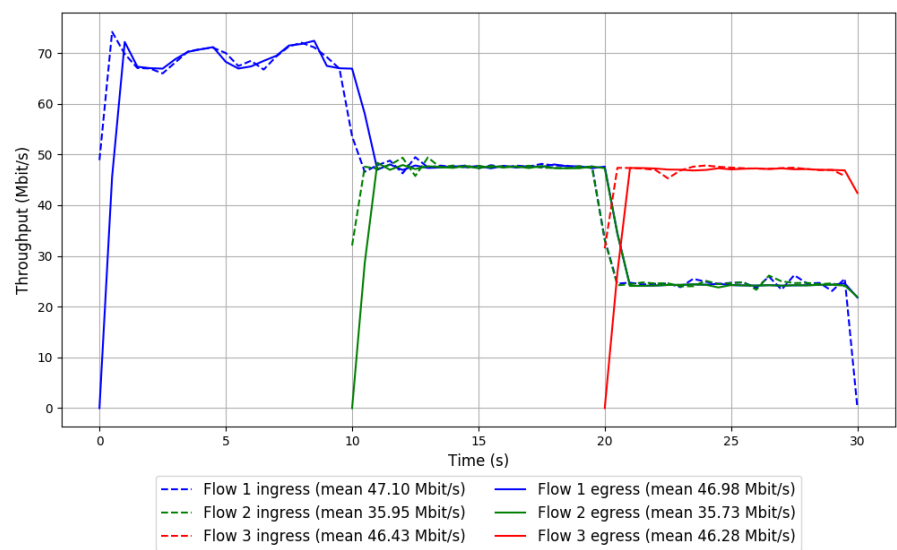


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-07-25 08:13:35
End at: 2018-07-25 08:14:05
Local clock offset: 2.91 ms
Remote clock offset: 4.297 ms

# Below is generated by plot.py at 2018-07-25 11:43:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.08 Mbit/s
95th percentile per-packet one-way delay: 68.276 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 46.98 Mbit/s
95th percentile per-packet one-way delay: 68.195 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 35.73 Mbit/s
95th percentile per-packet one-way delay: 68.600 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 46.28 Mbit/s
95th percentile per-packet one-way delay: 50.619 ms
Loss rate: 0.99%
```

Run 2: Report of TaoVA-100x — Data Link



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-25 08:36:38

End at: 2018-07-25 08:37:08

Local clock offset: 1.314 ms

Remote clock offset: 4.631 ms

Below is generated by plot.py at 2018-07-25 11:43:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.05 Mbit/s

95th percentile per-packet one-way delay: 59.802 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 49.42 Mbit/s

95th percentile per-packet one-way delay: 59.726 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 39.42 Mbit/s

95th percentile per-packet one-way delay: 59.864 ms

Loss rate: 1.19%

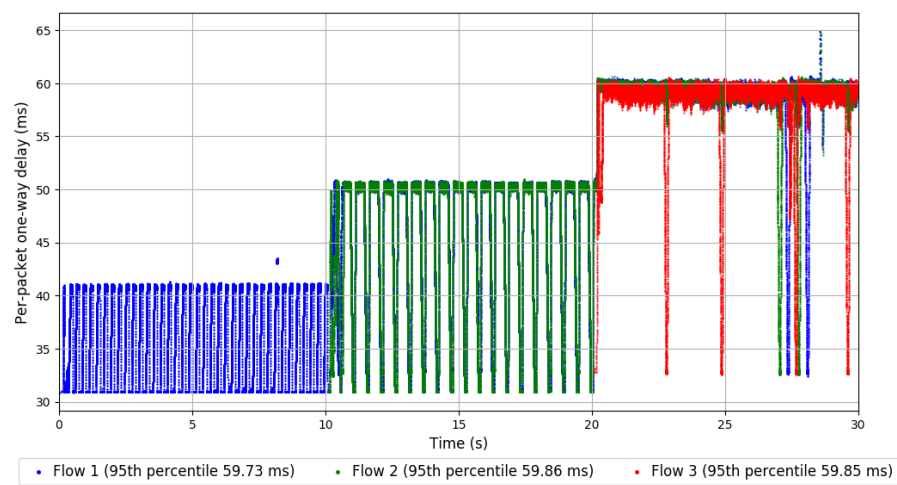
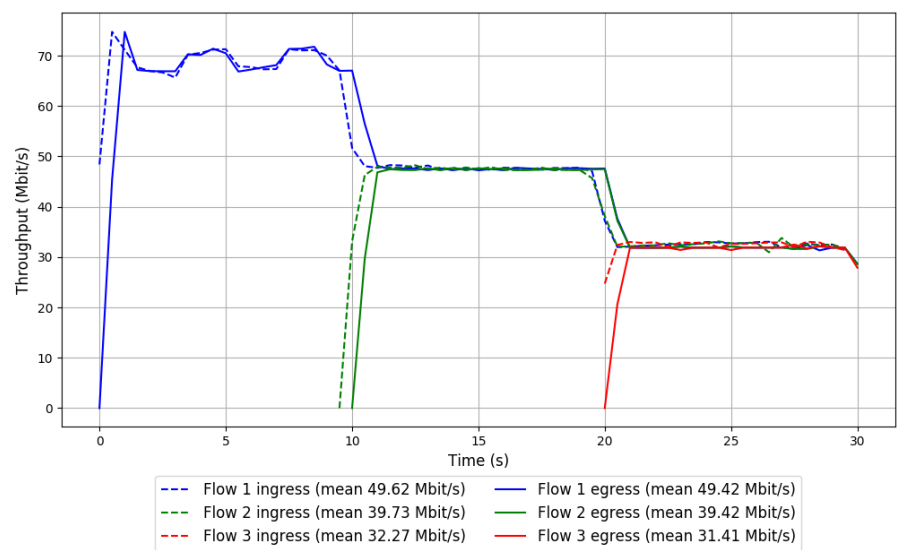
-- Flow 3:

Average throughput: 31.41 Mbit/s

95th percentile per-packet one-way delay: 59.853 ms

Loss rate: 3.33%

Run 3: Report of TaoVA-100x — Data Link



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-25 08:59:37

End at: 2018-07-25 09:00:07

Local clock offset: -1.03 ms

Remote clock offset: 2.512 ms

Below is generated by plot.py at 2018-07-25 11:43:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.32 Mbit/s

95th percentile per-packet one-way delay: 59.621 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 49.60 Mbit/s

95th percentile per-packet one-way delay: 59.411 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 39.56 Mbit/s

95th percentile per-packet one-way delay: 59.718 ms

Loss rate: 0.96%

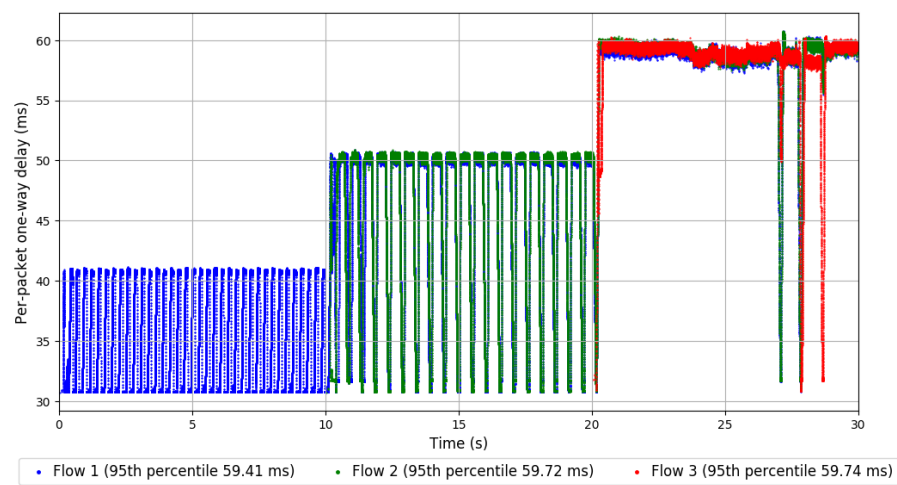
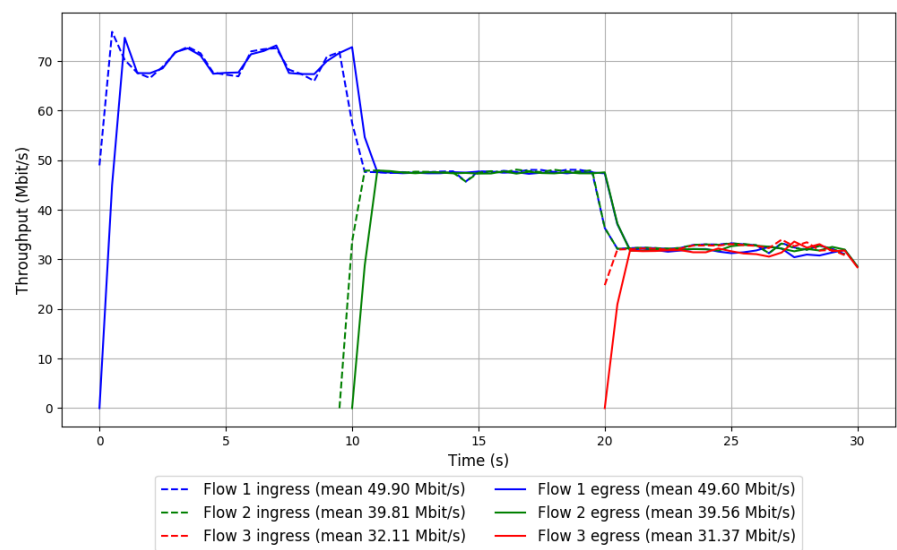
-- Flow 3:

Average throughput: 31.37 Mbit/s

95th percentile per-packet one-way delay: 59.743 ms

Loss rate: 3.07%

Run 4: Report of TaoVA-100x — Data Link



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-25 09:22:35

End at: 2018-07-25 09:23:05

Local clock offset: 2.899 ms

Remote clock offset: 2.466 ms

Below is generated by plot.py at 2018-07-25 11:43:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.09 Mbit/s

95th percentile per-packet one-way delay: 59.551 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 49.31 Mbit/s

95th percentile per-packet one-way delay: 59.401 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 39.55 Mbit/s

95th percentile per-packet one-way delay: 59.505 ms

Loss rate: 2.11%

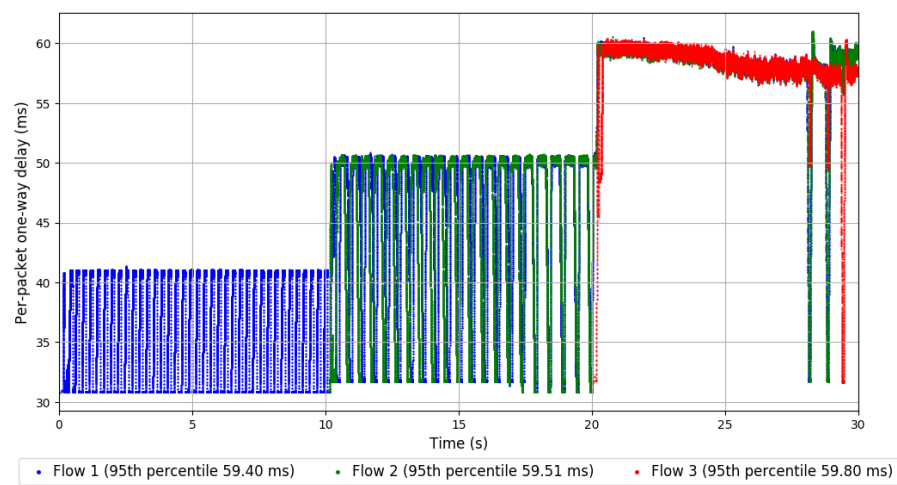
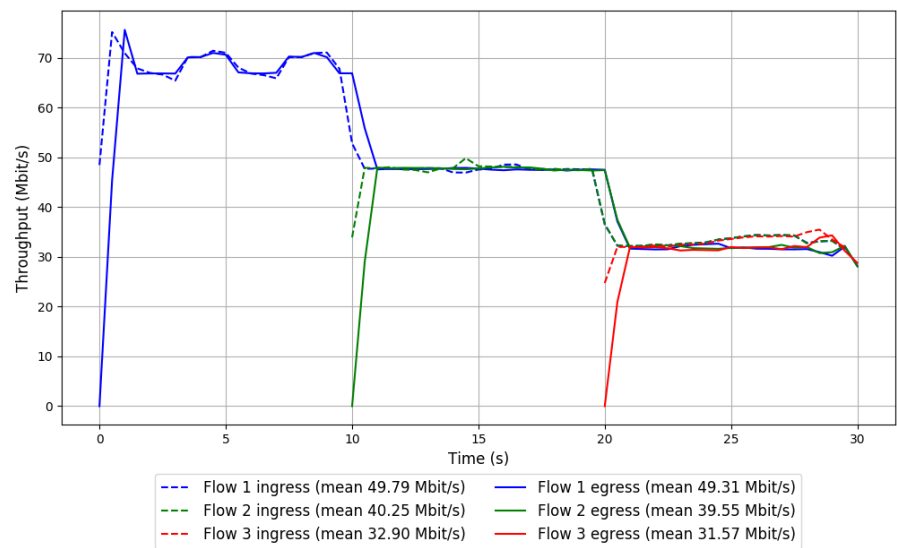
-- Flow 3:

Average throughput: 31.57 Mbit/s

95th percentile per-packet one-way delay: 59.803 ms

Loss rate: 4.67%

Run 5: Report of TaoVA-100x — Data Link



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-25 09:45:30

End at: 2018-07-25 09:46:00

Local clock offset: 0.363 ms

Remote clock offset: 2.84 ms

Below is generated by plot.py at 2018-07-25 11:43:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.44 Mbit/s

95th percentile per-packet one-way delay: 59.746 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 49.85 Mbit/s

95th percentile per-packet one-way delay: 59.504 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 39.15 Mbit/s

95th percentile per-packet one-way delay: 59.707 ms

Loss rate: 1.97%

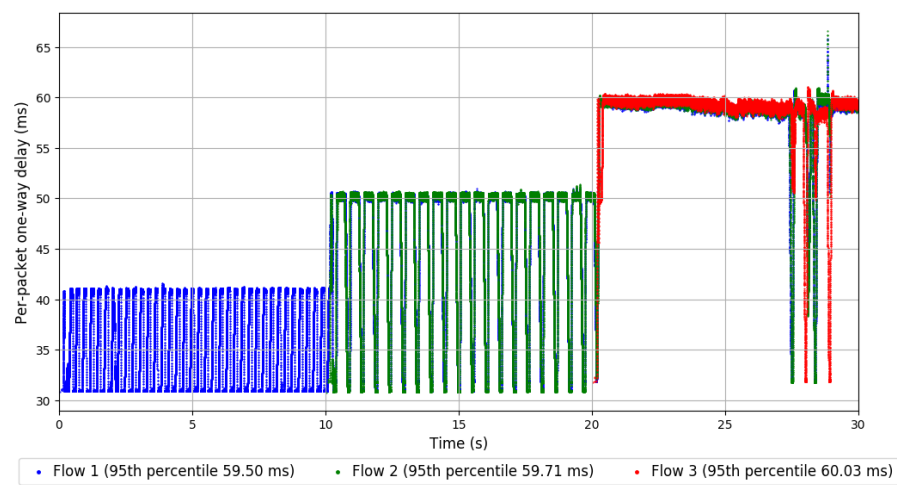
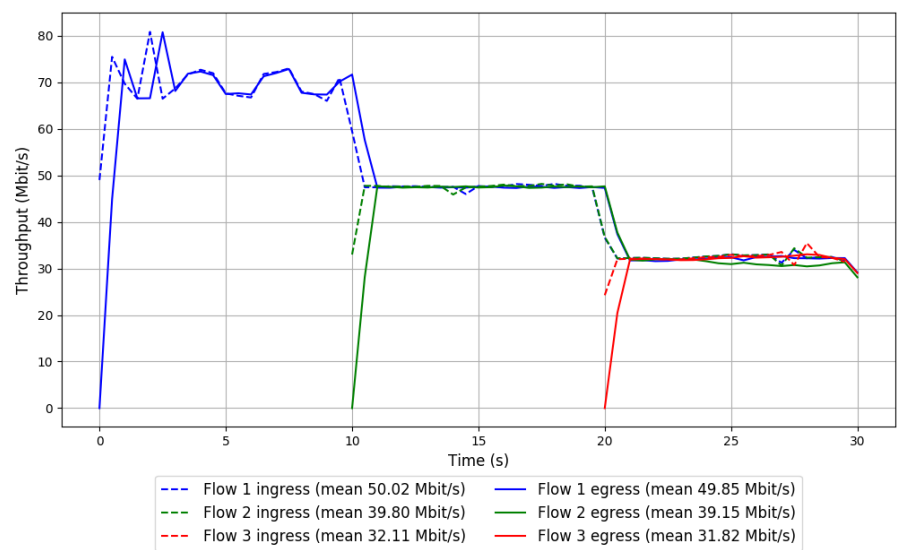
-- Flow 3:

Average throughput: 31.82 Mbit/s

95th percentile per-packet one-way delay: 60.034 ms

Loss rate: 1.58%

Run 6: Report of TaoVA-100x — Data Link



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-25 10:08:23

End at: 2018-07-25 10:08:53

Local clock offset: -0.251 ms

Remote clock offset: 2.317 ms

Below is generated by plot.py at 2018-07-25 11:43:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.36 Mbit/s

95th percentile per-packet one-way delay: 59.539 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 49.72 Mbit/s

95th percentile per-packet one-way delay: 59.429 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 39.42 Mbit/s

95th percentile per-packet one-way delay: 59.525 ms

Loss rate: 1.82%

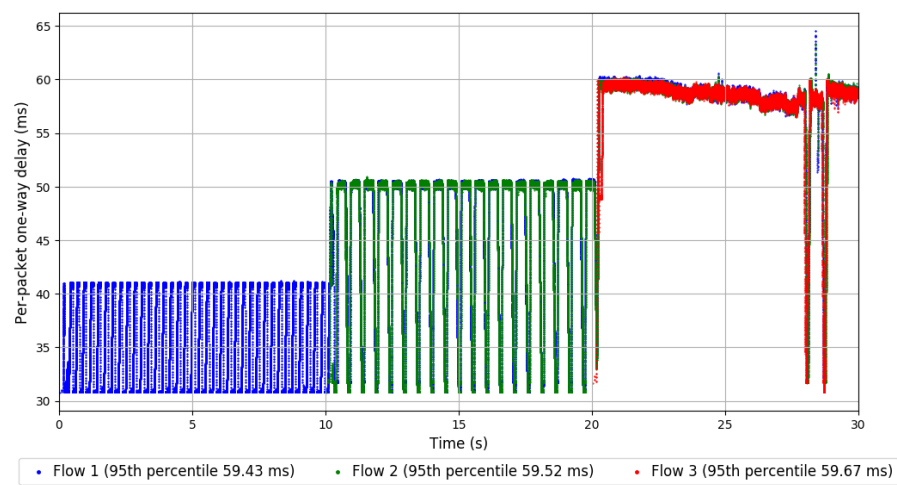
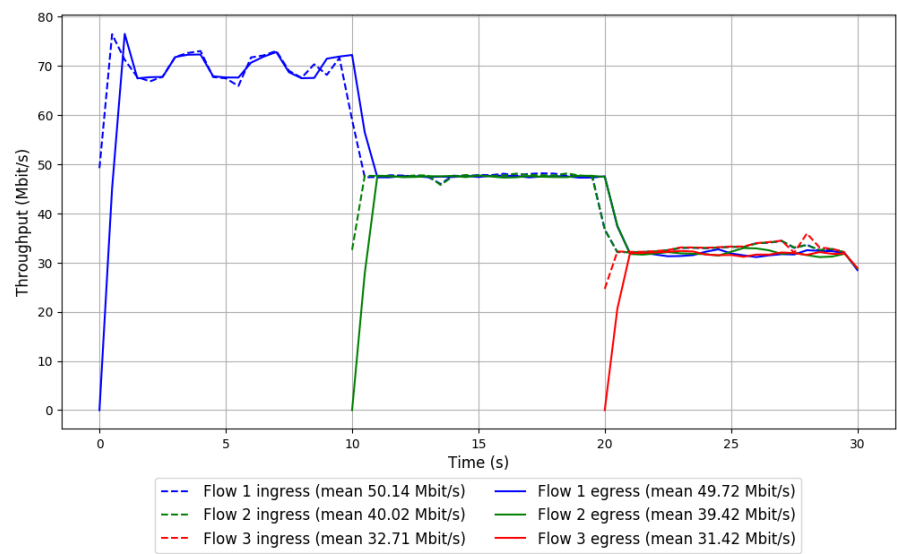
-- Flow 3:

Average throughput: 31.42 Mbit/s

95th percentile per-packet one-way delay: 59.672 ms

Loss rate: 4.71%

Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-25 10:31:12

End at: 2018-07-25 10:31:42

Local clock offset: -0.354 ms

Remote clock offset: 1.678 ms

Below is generated by plot.py at 2018-07-25 11:43:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.82 Mbit/s

95th percentile per-packet one-way delay: 68.442 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 47.72 Mbit/s

95th percentile per-packet one-way delay: 68.292 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 35.75 Mbit/s

95th percentile per-packet one-way delay: 68.783 ms

Loss rate: 0.96%

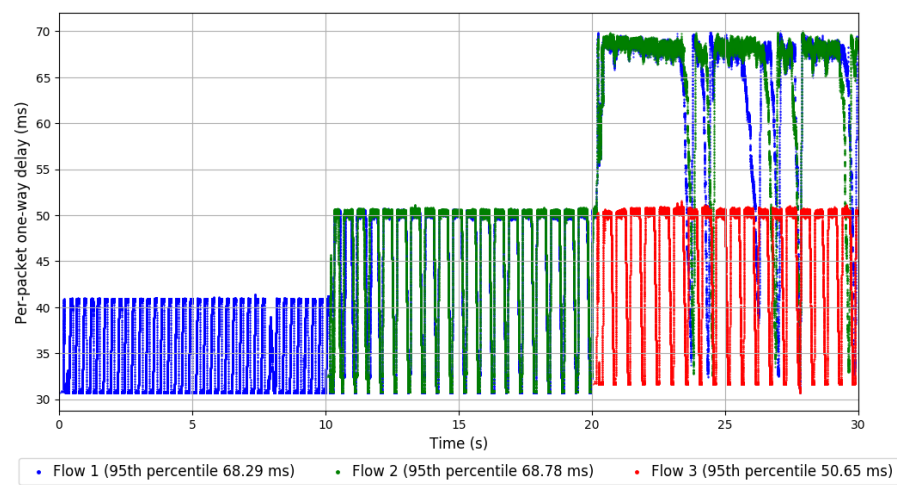
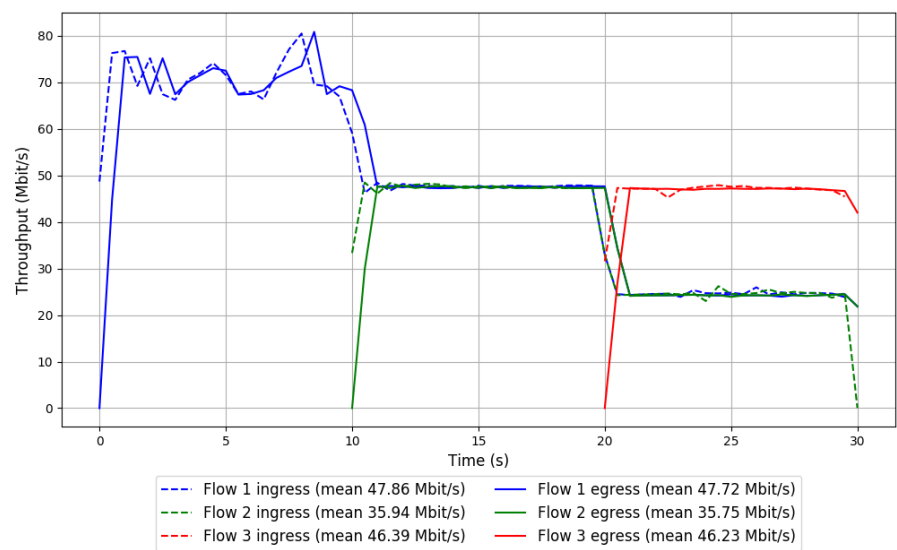
-- Flow 3:

Average throughput: 46.23 Mbit/s

95th percentile per-packet one-way delay: 50.652 ms

Loss rate: 1.09%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-25 10:54:02

End at: 2018-07-25 10:54:32

Local clock offset: 0.035 ms

Remote clock offset: 1.18 ms

Below is generated by plot.py at 2018-07-25 11:45:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.11 Mbit/s

95th percentile per-packet one-way delay: 59.389 ms

Loss rate: 1.78%

-- Flow 1:

Average throughput: 49.60 Mbit/s

95th percentile per-packet one-way delay: 59.028 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 39.35 Mbit/s

95th percentile per-packet one-way delay: 59.435 ms

Loss rate: 2.32%

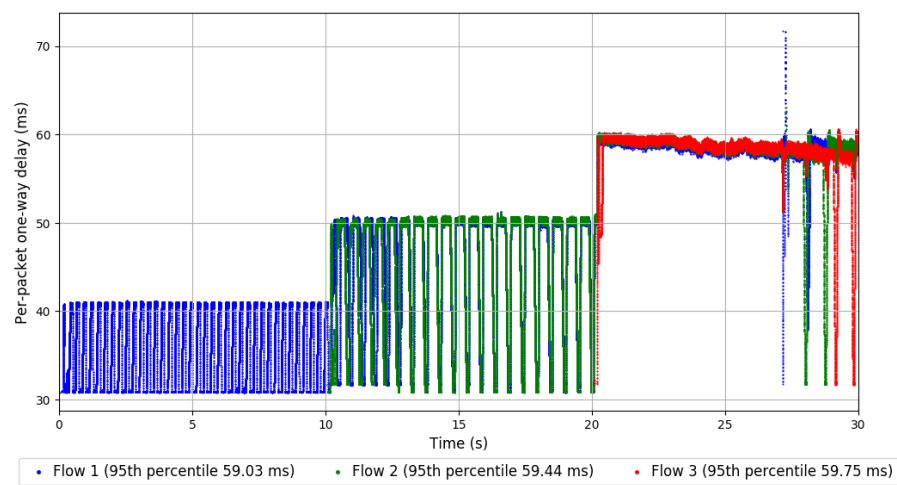
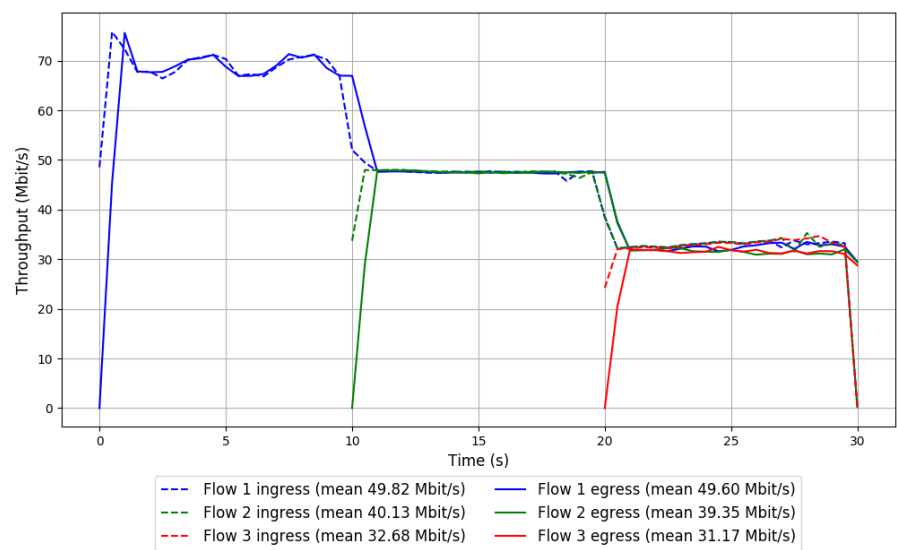
-- Flow 3:

Average throughput: 31.17 Mbit/s

95th percentile per-packet one-way delay: 59.748 ms

Loss rate: 5.37%

Run 9: Report of TaoVA-100x — Data Link



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-25 11:16:54

End at: 2018-07-25 11:17:24

Local clock offset: 2.708 ms

Remote clock offset: 2.097 ms

Below is generated by plot.py at 2018-07-25 11:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.65 Mbit/s

95th percentile per-packet one-way delay: 68.203 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 47.40 Mbit/s

95th percentile per-packet one-way delay: 68.033 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 47.07 Mbit/s

95th percentile per-packet one-way delay: 50.477 ms

Loss rate: 0.62%

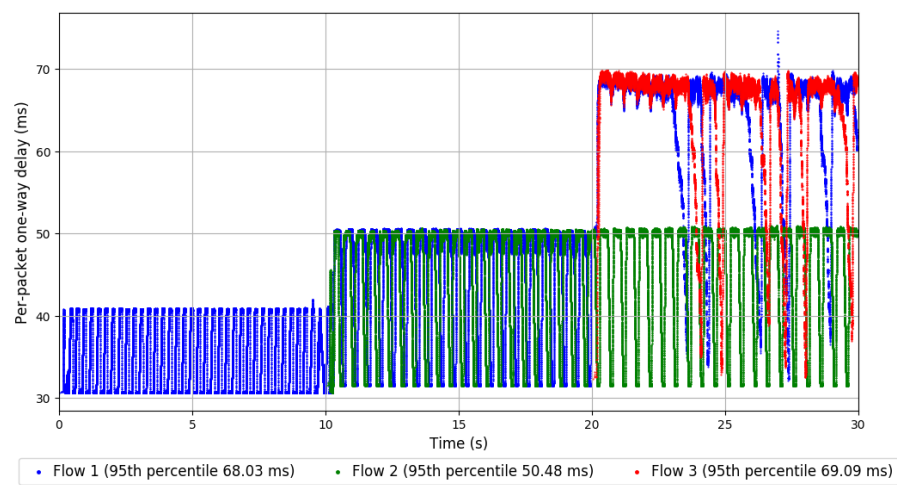
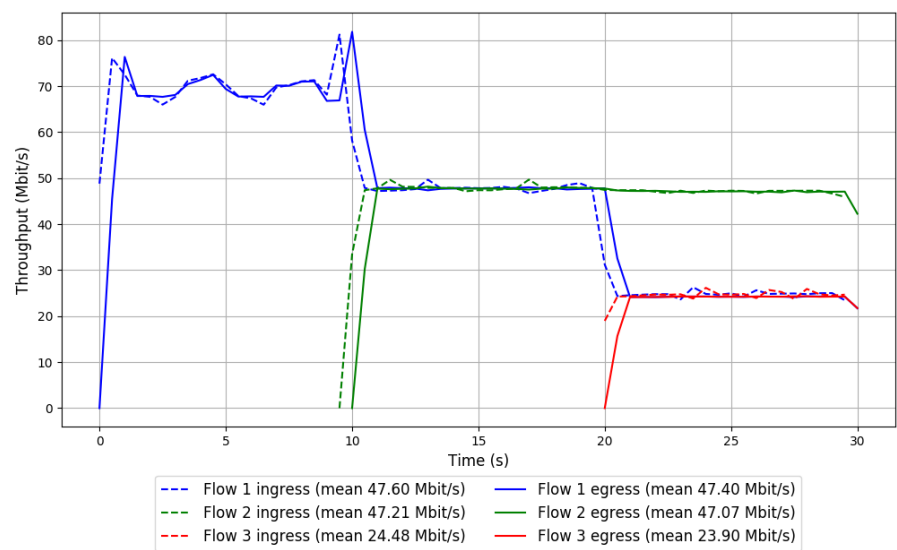
-- Flow 3:

Average throughput: 23.90 Mbit/s

95th percentile per-packet one-way delay: 69.091 ms

Loss rate: 3.12%

Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: 2018-07-25 07:37:08

End at: 2018-07-25 07:37:38

Local clock offset: 3.266 ms

Remote clock offset: 3.183 ms

Below is generated by plot.py at 2018-07-25 11:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.41 Mbit/s

95th percentile per-packet one-way delay: 37.516 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 48.94 Mbit/s

95th percentile per-packet one-way delay: 35.690 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 29.82 Mbit/s

95th percentile per-packet one-way delay: 33.238 ms

Loss rate: 0.25%

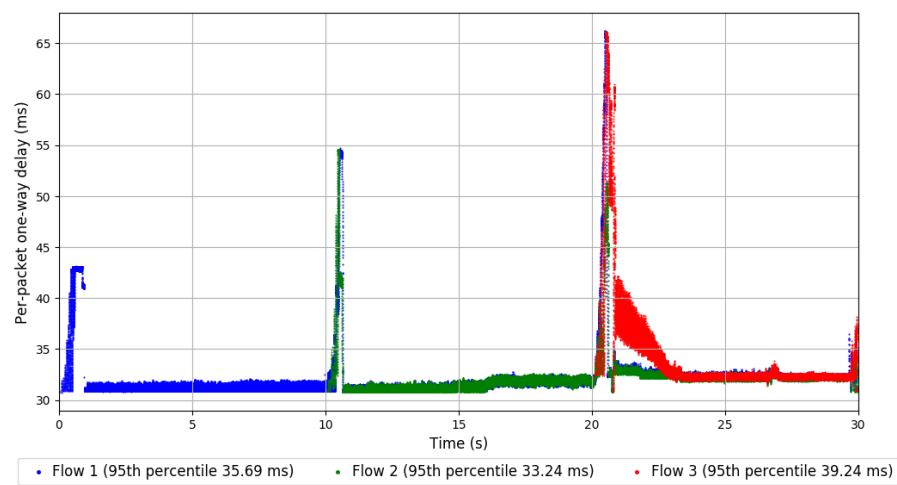
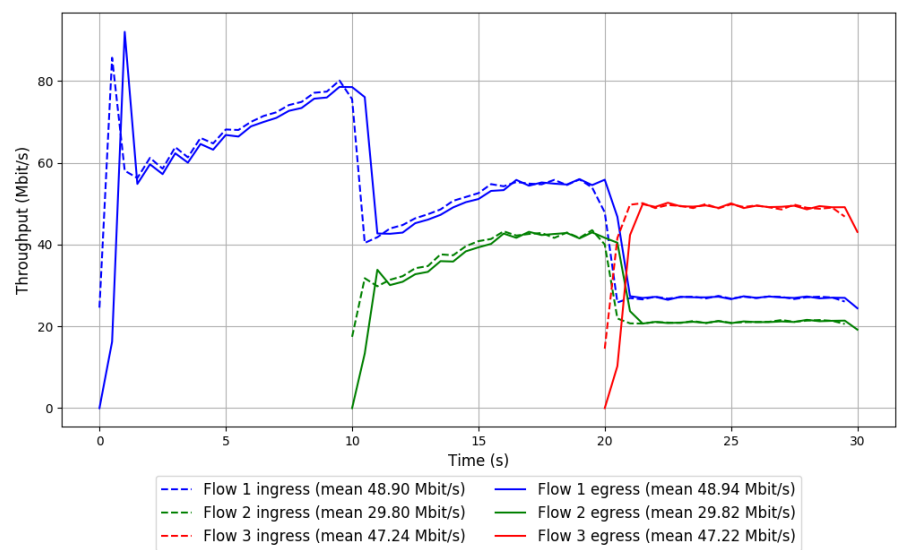
-- Flow 3:

Average throughput: 47.22 Mbit/s

95th percentile per-packet one-way delay: 39.245 ms

Loss rate: 0.70%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-25 08:00:06

End at: 2018-07-25 08:00:36

Local clock offset: 3.364 ms

Remote clock offset: 5.413 ms

Below is generated by plot.py at 2018-07-25 11:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.20 Mbit/s

95th percentile per-packet one-way delay: 34.079 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 43.64 Mbit/s

95th percentile per-packet one-way delay: 33.254 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 44.60 Mbit/s

95th percentile per-packet one-way delay: 34.204 ms

Loss rate: 0.37%

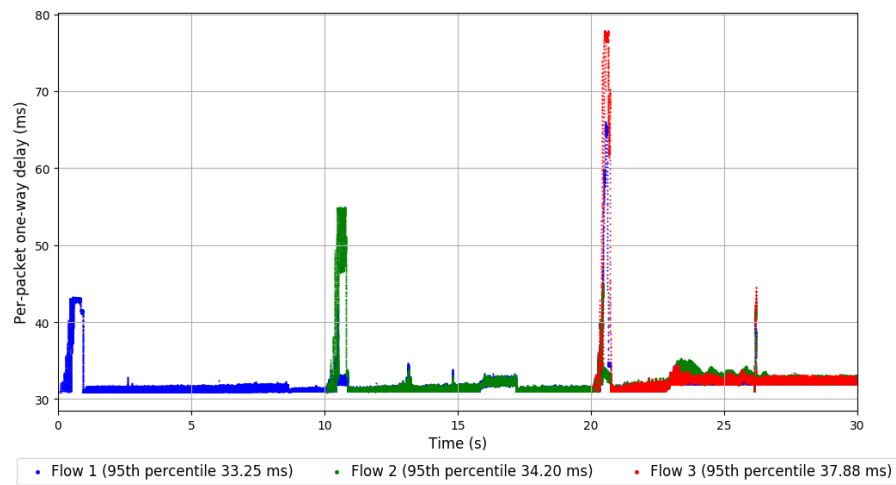
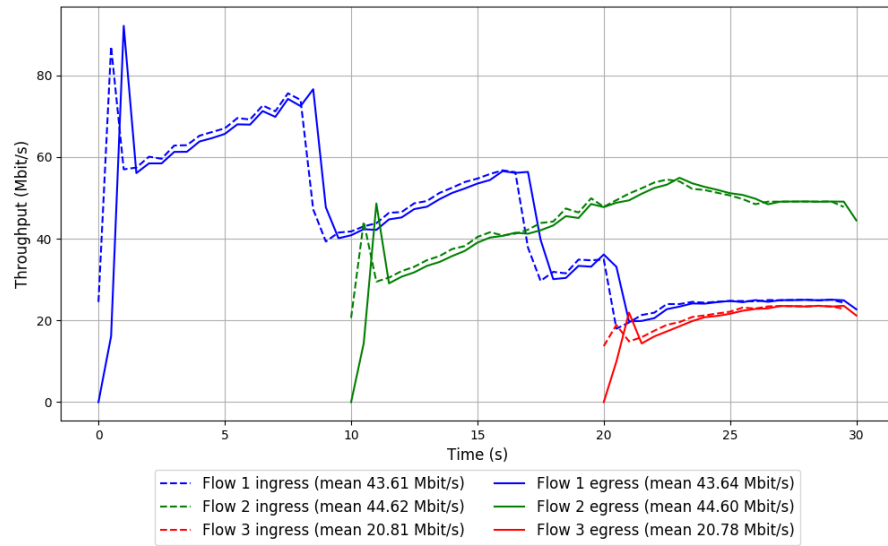
-- Flow 3:

Average throughput: 20.78 Mbit/s

95th percentile per-packet one-way delay: 37.878 ms

Loss rate: 0.78%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-25 08:23:01

End at: 2018-07-25 08:23:31

Local clock offset: 2.864 ms

Remote clock offset: 3.967 ms

Below is generated by plot.py at 2018-07-25 11:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.40 Mbit/s

95th percentile per-packet one-way delay: 33.369 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 47.55 Mbit/s

95th percentile per-packet one-way delay: 36.295 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 34.42 Mbit/s

95th percentile per-packet one-way delay: 33.095 ms

Loss rate: 0.32%

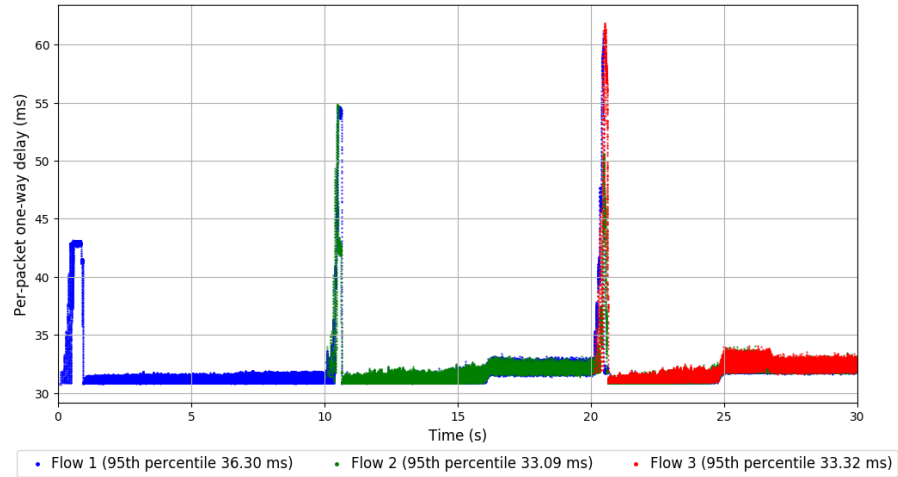
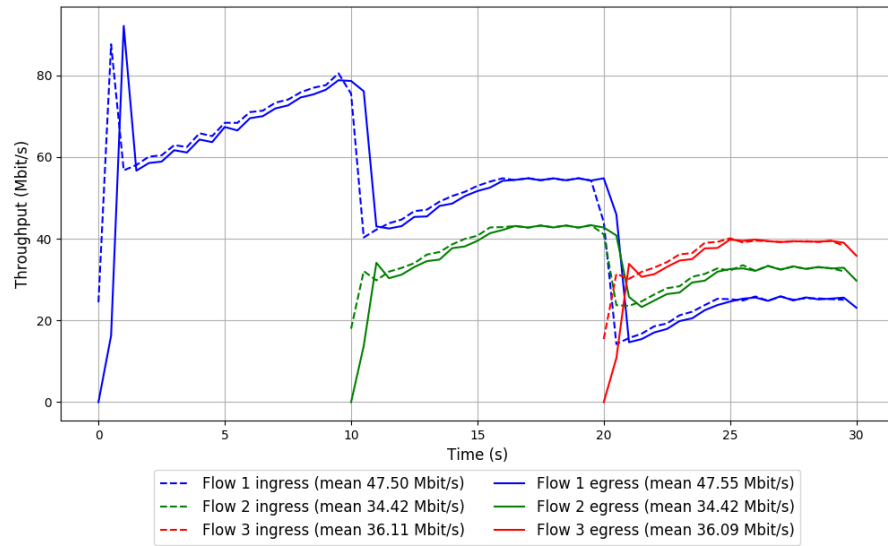
-- Flow 3:

Average throughput: 36.09 Mbit/s

95th percentile per-packet one-way delay: 33.321 ms

Loss rate: 0.73%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-25 08:46:07

End at: 2018-07-25 08:46:37

Local clock offset: 0.036 ms

Remote clock offset: 3.289 ms

Below is generated by plot.py at 2018-07-25 11:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.84 Mbit/s

95th percentile per-packet one-way delay: 34.372 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 47.58 Mbit/s

95th percentile per-packet one-way delay: 38.222 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 29.04 Mbit/s

95th percentile per-packet one-way delay: 32.995 ms

Loss rate: 0.28%

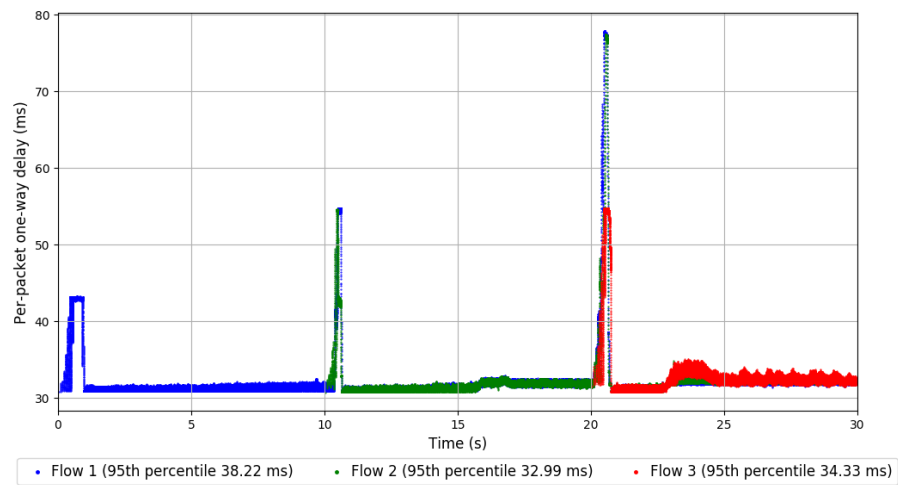
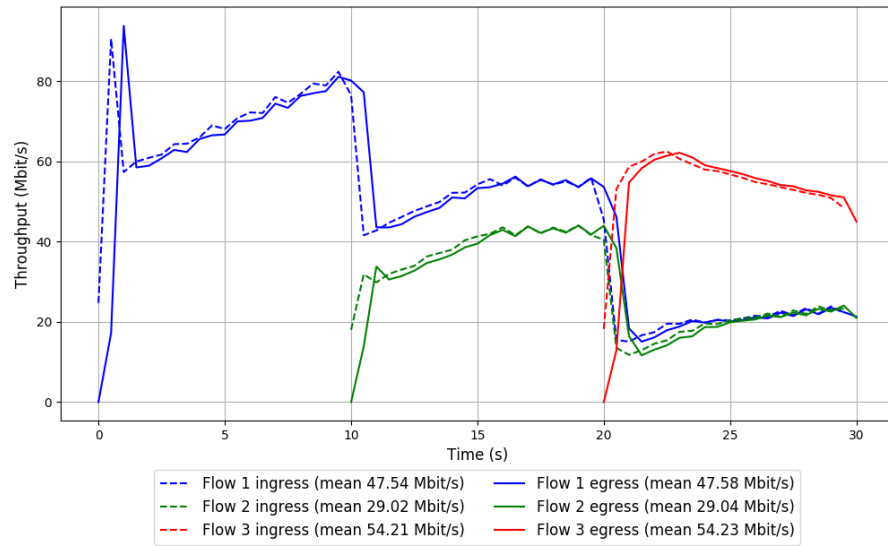
-- Flow 3:

Average throughput: 54.23 Mbit/s

95th percentile per-packet one-way delay: 34.329 ms

Loss rate: 0.62%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-25 09:09:04

End at: 2018-07-25 09:09:34

Local clock offset: 1.393 ms

Remote clock offset: 2.679 ms

Below is generated by plot.py at 2018-07-25 11:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.32 Mbit/s

95th percentile per-packet one-way delay: 33.433 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 47.61 Mbit/s

95th percentile per-packet one-way delay: 35.658 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 34.58 Mbit/s

95th percentile per-packet one-way delay: 32.799 ms

Loss rate: 0.32%

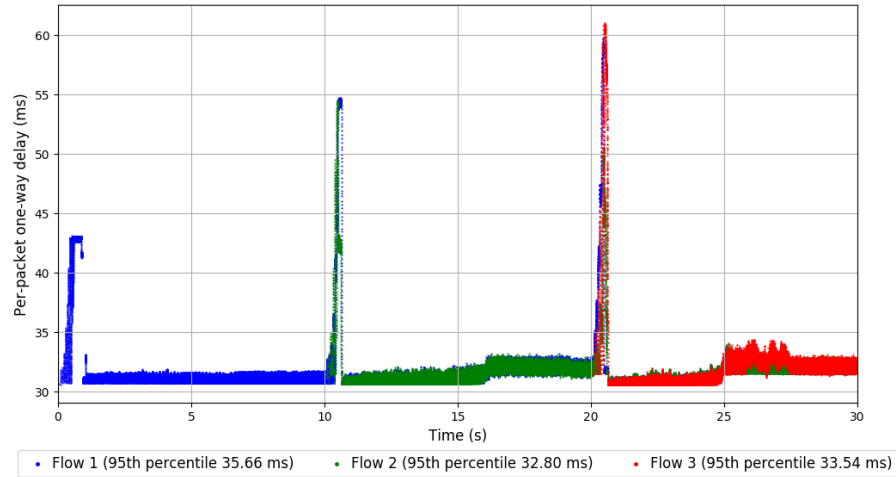
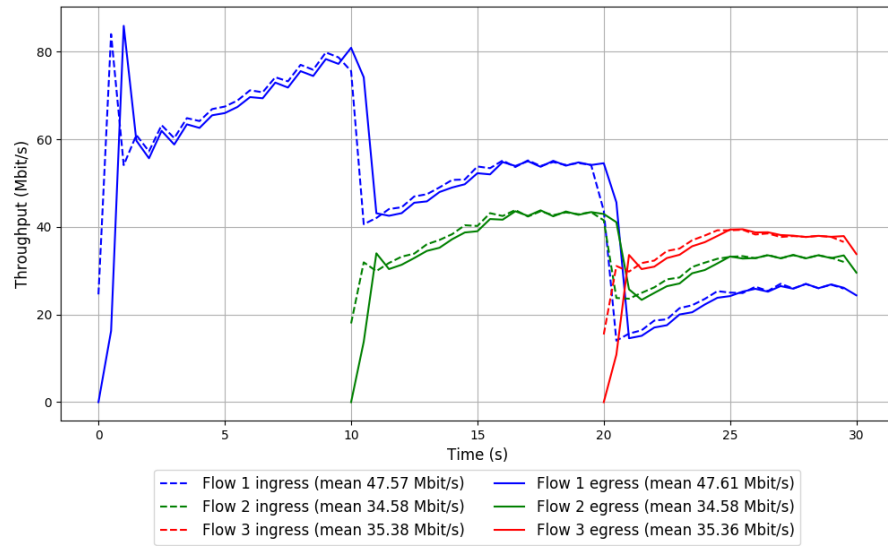
-- Flow 3:

Average throughput: 35.36 Mbit/s

95th percentile per-packet one-way delay: 33.539 ms

Loss rate: 0.72%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-25 09:32:02

End at: 2018-07-25 09:32:32

Local clock offset: 2.961 ms

Remote clock offset: 2.485 ms

Below is generated by plot.py at 2018-07-25 11:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.46 Mbit/s

95th percentile per-packet one-way delay: 33.646 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 46.21 Mbit/s

95th percentile per-packet one-way delay: 37.431 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 42.45 Mbit/s

95th percentile per-packet one-way delay: 32.942 ms

Loss rate: 0.38%

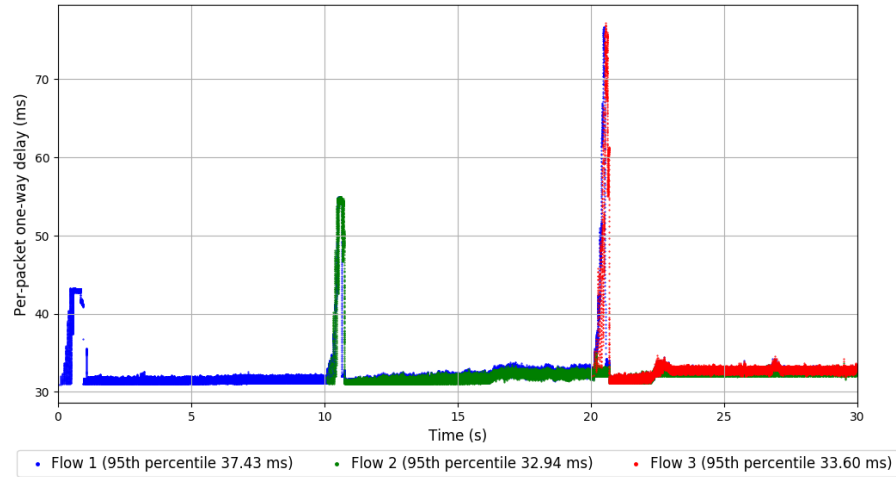
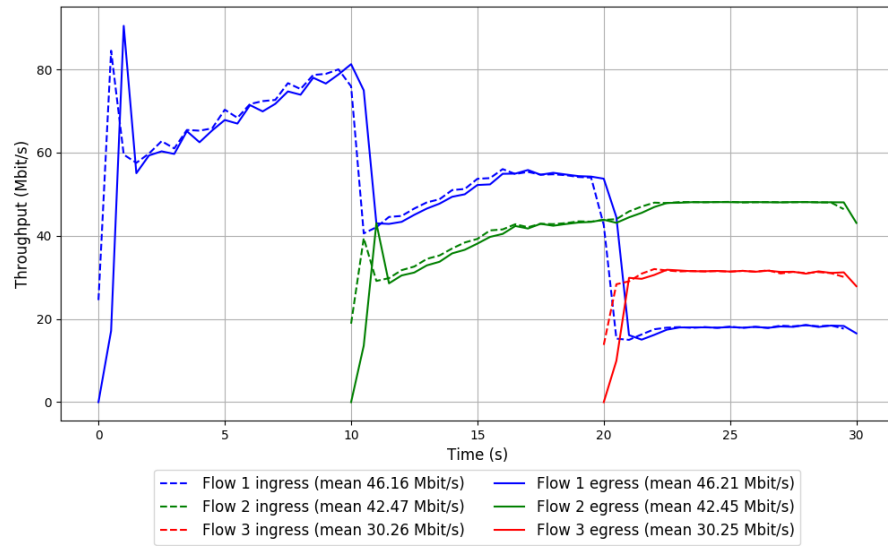
-- Flow 3:

Average throughput: 30.25 Mbit/s

95th percentile per-packet one-way delay: 33.600 ms

Loss rate: 0.70%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-25 09:54:55

End at: 2018-07-25 09:55:25

Local clock offset: -0.313 ms

Remote clock offset: 2.466 ms

Below is generated by plot.py at 2018-07-25 11:45:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.46 Mbit/s

95th percentile per-packet one-way delay: 34.576 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 47.79 Mbit/s

95th percentile per-packet one-way delay: 36.245 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 33.88 Mbit/s

95th percentile per-packet one-way delay: 33.632 ms

Loss rate: 0.32%

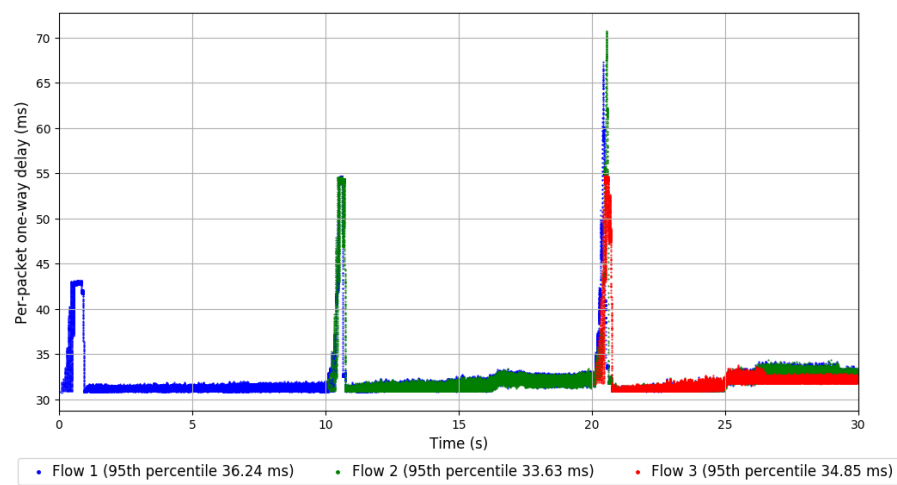
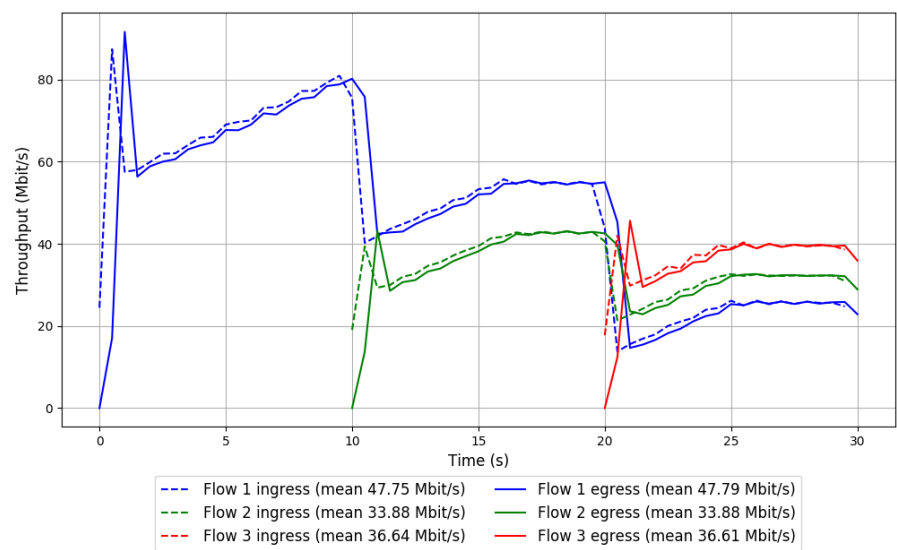
-- Flow 3:

Average throughput: 36.61 Mbit/s

95th percentile per-packet one-way delay: 34.851 ms

Loss rate: 0.72%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-25 10:17:48

End at: 2018-07-25 10:18:18

Local clock offset: -0.163 ms

Remote clock offset: 2.437 ms

Below is generated by plot.py at 2018-07-25 11:45:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.65 Mbit/s

95th percentile per-packet one-way delay: 39.835 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 38.14 Mbit/s

95th percentile per-packet one-way delay: 42.721 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 32.85 Mbit/s

95th percentile per-packet one-way delay: 36.543 ms

Loss rate: 0.31%

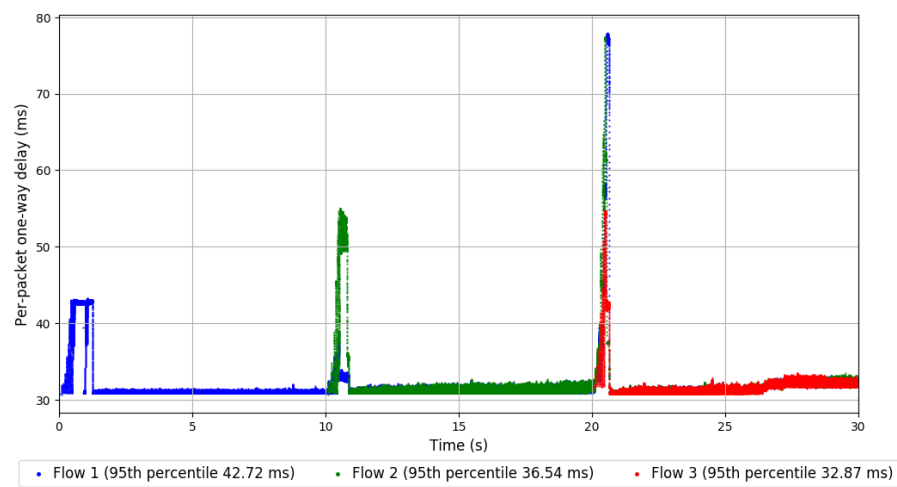
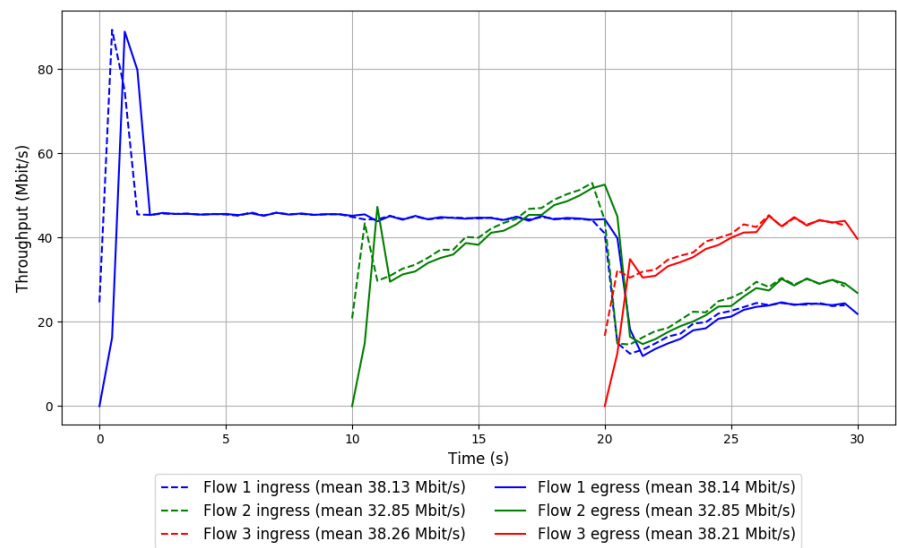
-- Flow 3:

Average throughput: 38.21 Mbit/s

95th percentile per-packet one-way delay: 32.872 ms

Loss rate: 0.77%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-25 10:40:36

End at: 2018-07-25 10:41:06

Local clock offset: -0.109 ms

Remote clock offset: 1.323 ms

Below is generated by plot.py at 2018-07-25 11:45:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.94 Mbit/s

95th percentile per-packet one-way delay: 34.636 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 50.80 Mbit/s

95th percentile per-packet one-way delay: 35.008 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 32.77 Mbit/s

95th percentile per-packet one-way delay: 32.604 ms

Loss rate: 0.29%

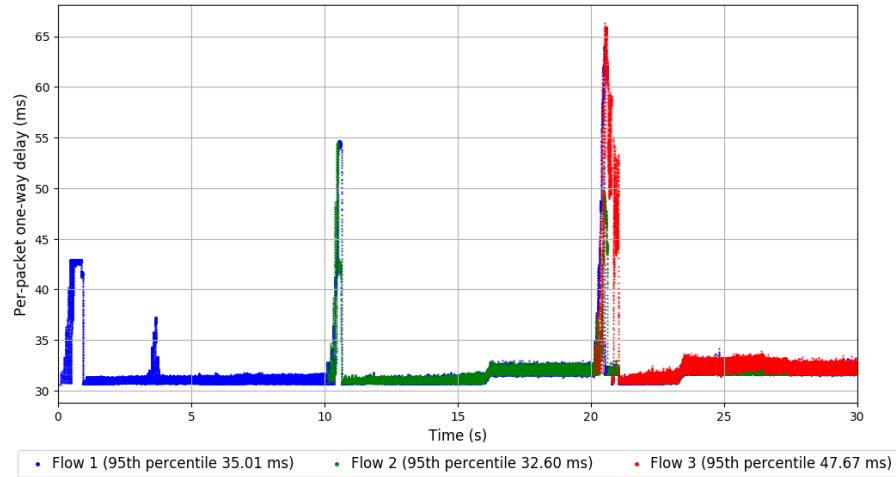
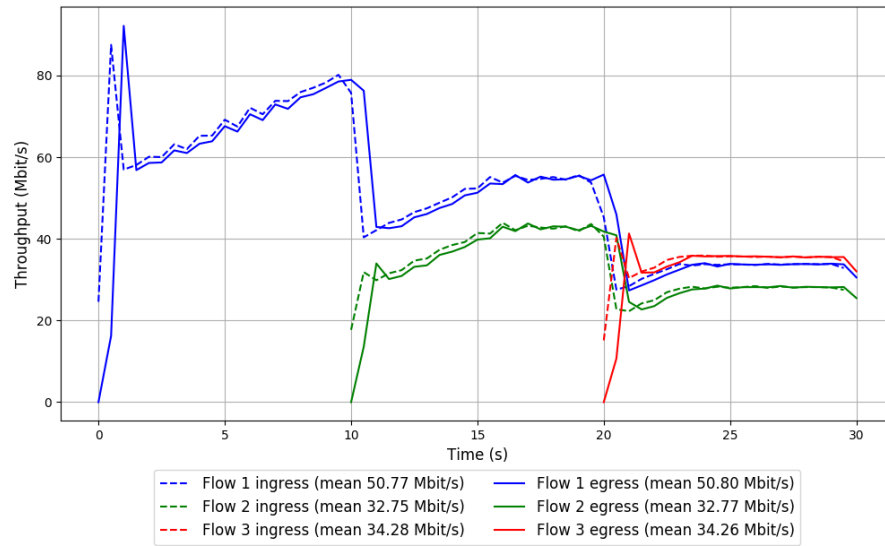
-- Flow 3:

Average throughput: 34.26 Mbit/s

95th percentile per-packet one-way delay: 47.675 ms

Loss rate: 0.71%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-25 11:03:26

End at: 2018-07-25 11:03:56

Local clock offset: 0.499 ms

Remote clock offset: 1.674 ms

Below is generated by plot.py at 2018-07-25 11:45:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.38 Mbit/s

95th percentile per-packet one-way delay: 32.927 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 45.78 Mbit/s

95th percentile per-packet one-way delay: 36.741 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 42.42 Mbit/s

95th percentile per-packet one-way delay: 32.454 ms

Loss rate: 0.38%

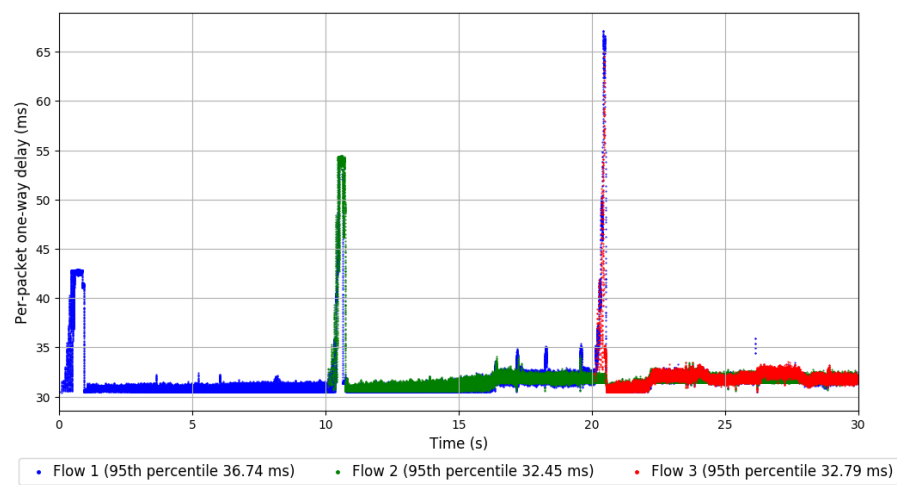
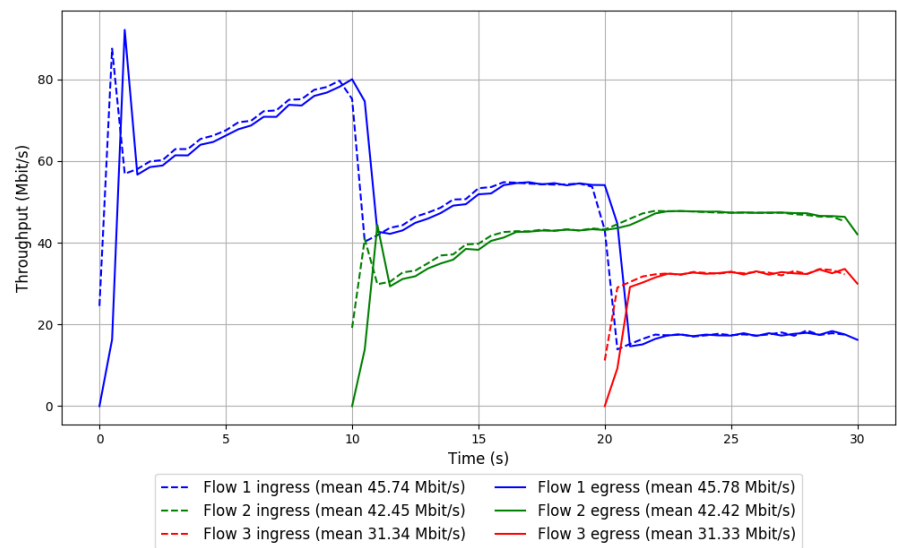
-- Flow 3:

Average throughput: 31.33 Mbit/s

95th percentile per-packet one-way delay: 32.792 ms

Loss rate: 0.72%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-25 07:38:29

End at: 2018-07-25 07:38:59

Local clock offset: 3.196 ms

Remote clock offset: 3.212 ms

Below is generated by plot.py at 2018-07-25 11:45:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.42 Mbit/s

95th percentile per-packet one-way delay: 65.243 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 53.10 Mbit/s

95th percentile per-packet one-way delay: 64.741 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 39.62 Mbit/s

95th percentile per-packet one-way delay: 65.480 ms

Loss rate: 0.61%

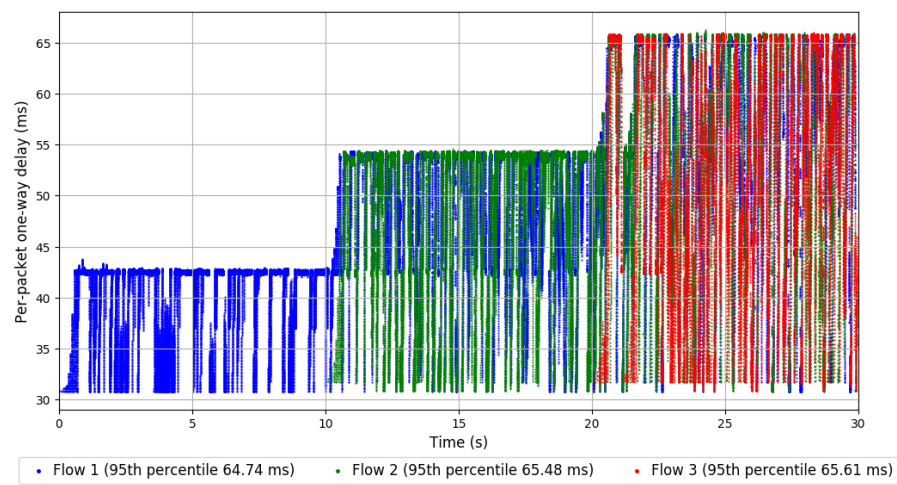
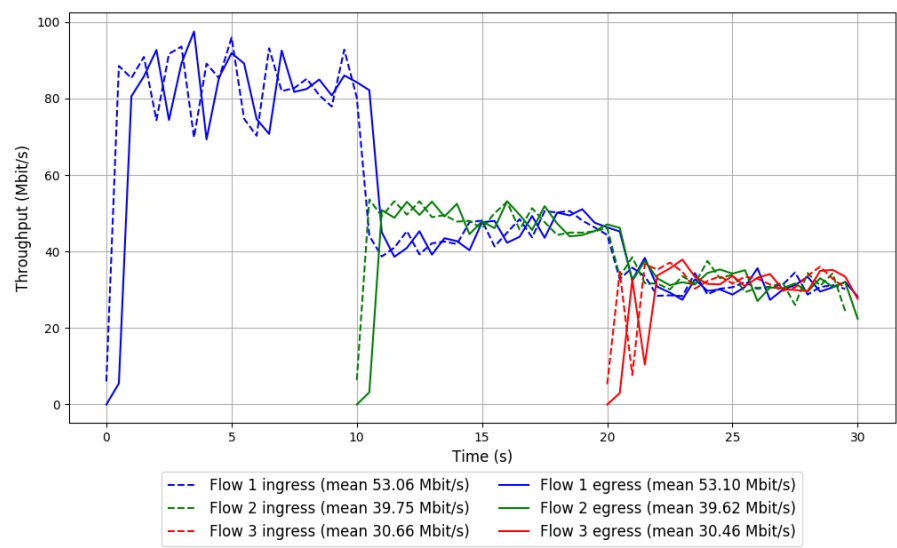
-- Flow 3:

Average throughput: 30.46 Mbit/s

95th percentile per-packet one-way delay: 65.605 ms

Loss rate: 1.31%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-25 08:01:27

End at: 2018-07-25 08:01:57

Local clock offset: 3.255 ms

Remote clock offset: 5.656 ms

Below is generated by plot.py at 2018-07-25 11:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.68 Mbit/s

95th percentile per-packet one-way delay: 70.333 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 57.81 Mbit/s

95th percentile per-packet one-way delay: 54.235 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 34.82 Mbit/s

95th percentile per-packet one-way delay: 76.279 ms

Loss rate: 0.55%

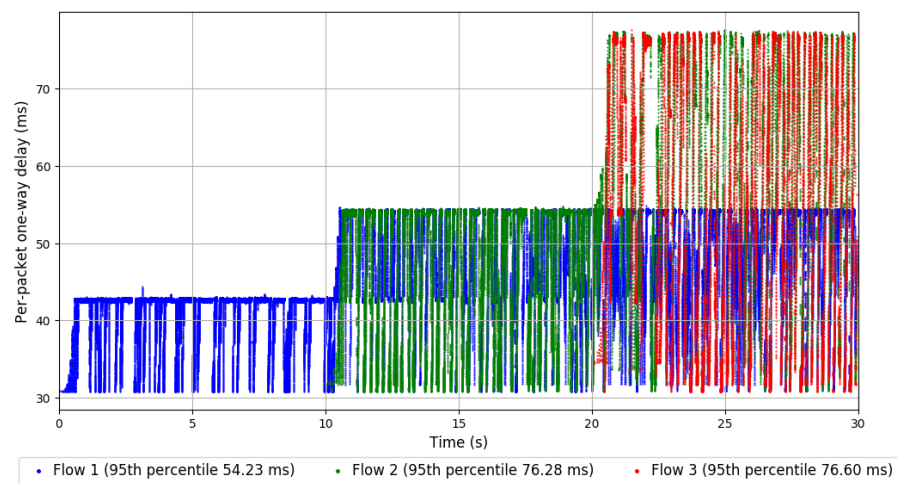
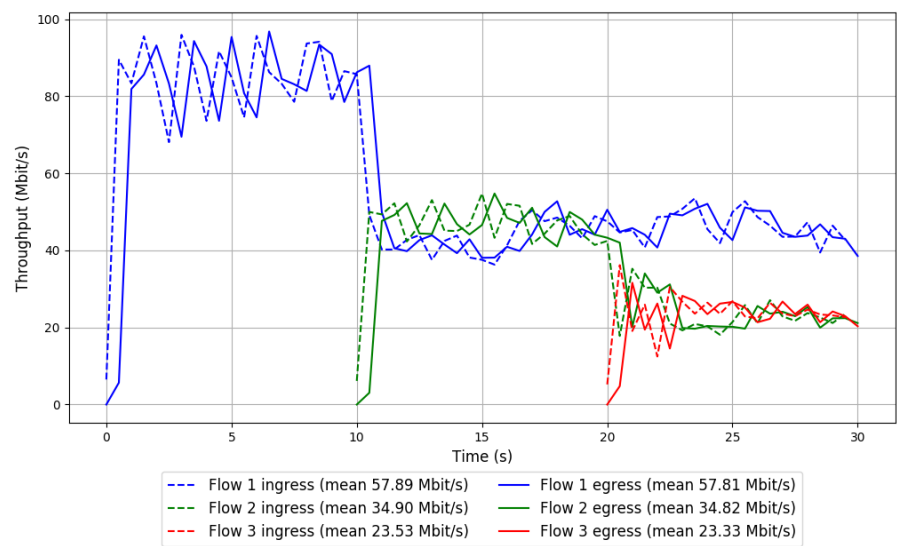
-- Flow 3:

Average throughput: 23.33 Mbit/s

95th percentile per-packet one-way delay: 76.601 ms

Loss rate: 1.44%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-25 08:24:22

End at: 2018-07-25 08:24:52

Local clock offset: 2.844 ms

Remote clock offset: 3.98 ms

Below is generated by plot.py at 2018-07-25 11:46:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.67 Mbit/s

95th percentile per-packet one-way delay: 65.457 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 53.09 Mbit/s

95th percentile per-packet one-way delay: 64.812 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 38.39 Mbit/s

95th percentile per-packet one-way delay: 65.498 ms

Loss rate: 0.35%

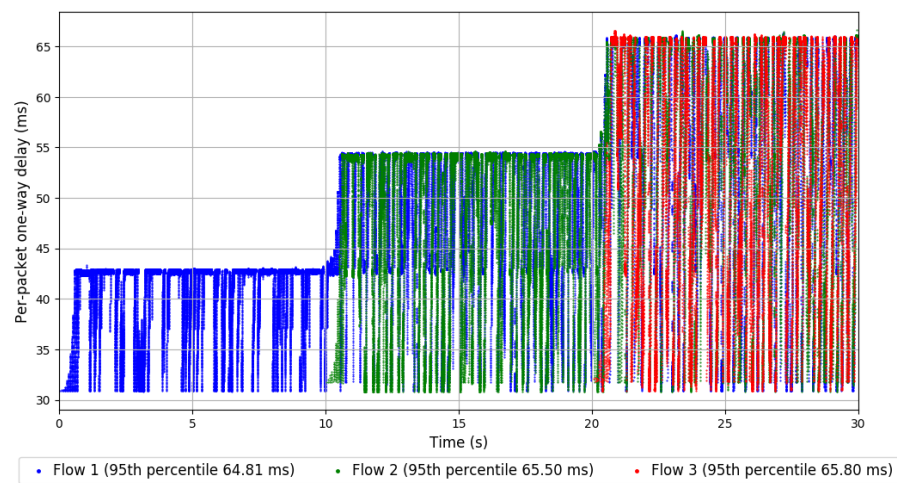
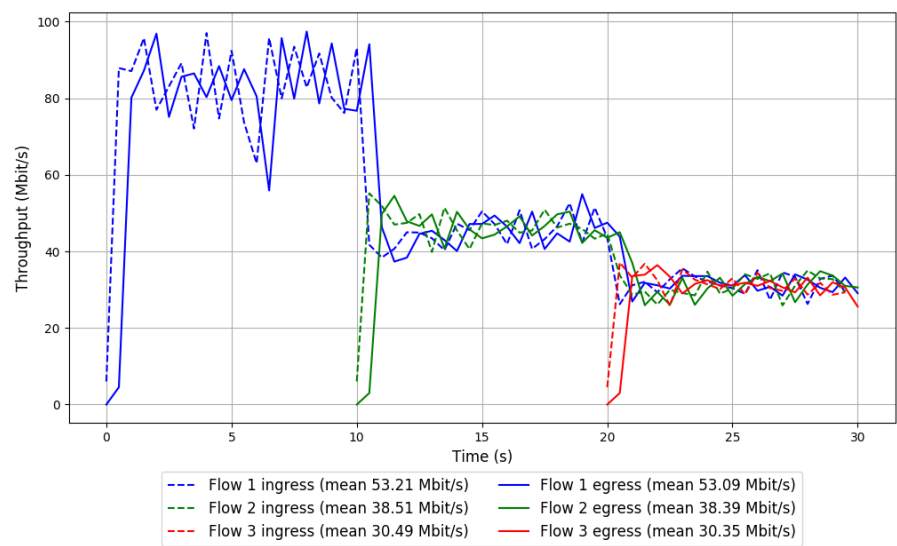
-- Flow 3:

Average throughput: 30.35 Mbit/s

95th percentile per-packet one-way delay: 65.803 ms

Loss rate: 1.11%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-25 08:47:28

End at: 2018-07-25 08:47:58

Local clock offset: -0.12 ms

Remote clock offset: 3.12 ms

Below is generated by plot.py at 2018-07-25 11:46:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.69 Mbit/s

95th percentile per-packet one-way delay: 65.155 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 53.60 Mbit/s

95th percentile per-packet one-way delay: 63.864 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 37.48 Mbit/s

95th percentile per-packet one-way delay: 65.295 ms

Loss rate: 0.71%

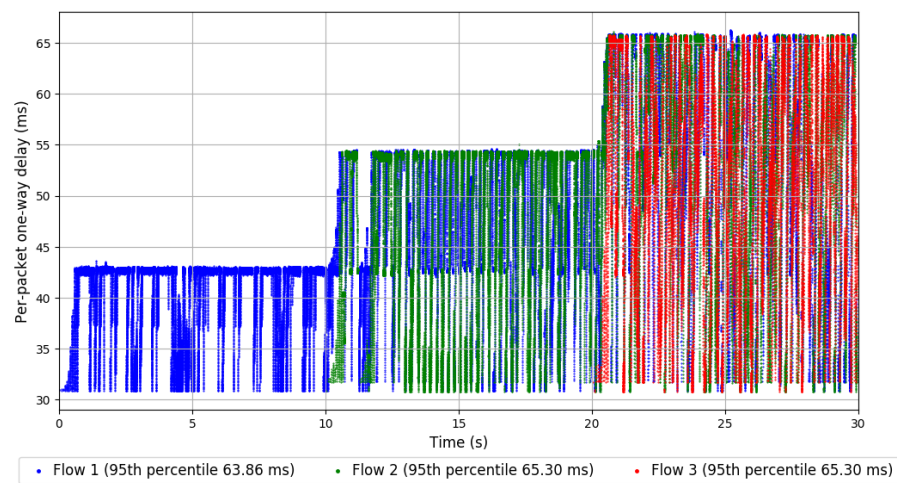
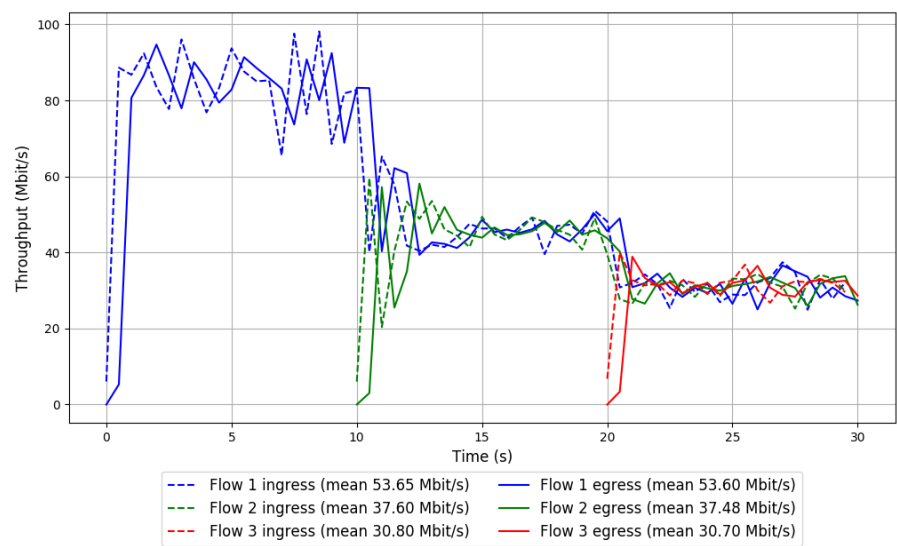
-- Flow 3:

Average throughput: 30.70 Mbit/s

95th percentile per-packet one-way delay: 65.296 ms

Loss rate: 0.96%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-25 09:10:25

End at: 2018-07-25 09:10:55

Local clock offset: 1.586 ms

Remote clock offset: 2.728 ms

Below is generated by plot.py at 2018-07-25 11:46:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.34 Mbit/s

95th percentile per-packet one-way delay: 67.226 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 50.72 Mbit/s

95th percentile per-packet one-way delay: 63.873 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 34.61 Mbit/s

95th percentile per-packet one-way delay: 74.148 ms

Loss rate: 0.18%

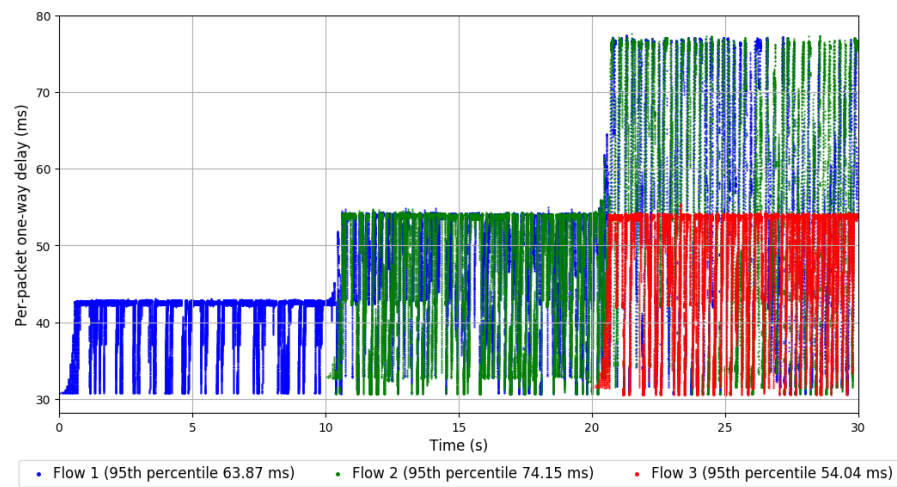
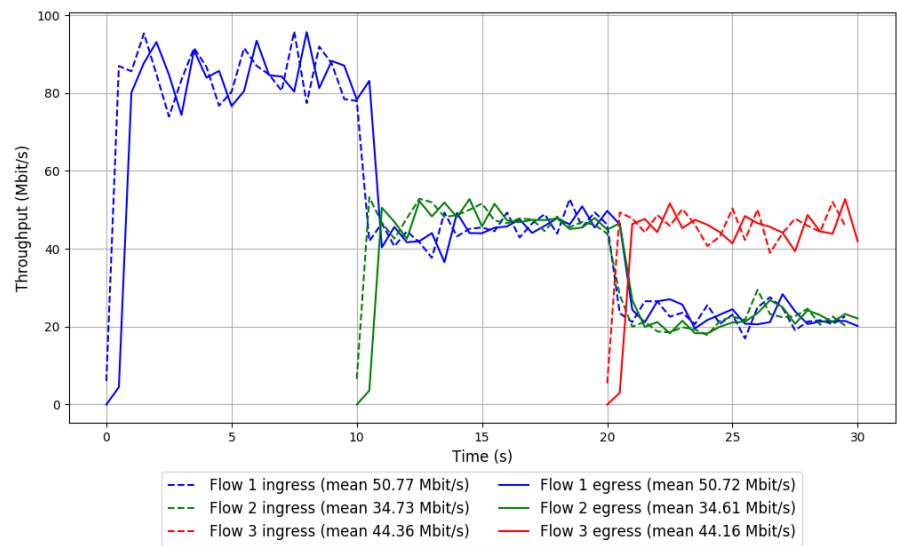
-- Flow 3:

Average throughput: 44.16 Mbit/s

95th percentile per-packet one-way delay: 54.037 ms

Loss rate: 1.12%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-25 09:33:22

End at: 2018-07-25 09:33:52

Local clock offset: 2.497 ms

Remote clock offset: 2.518 ms

Below is generated by plot.py at 2018-07-25 11:46:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.92 Mbit/s

95th percentile per-packet one-way delay: 66.313 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 50.95 Mbit/s

95th percentile per-packet one-way delay: 67.548 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 45.41 Mbit/s

95th percentile per-packet one-way delay: 54.451 ms

Loss rate: 0.65%

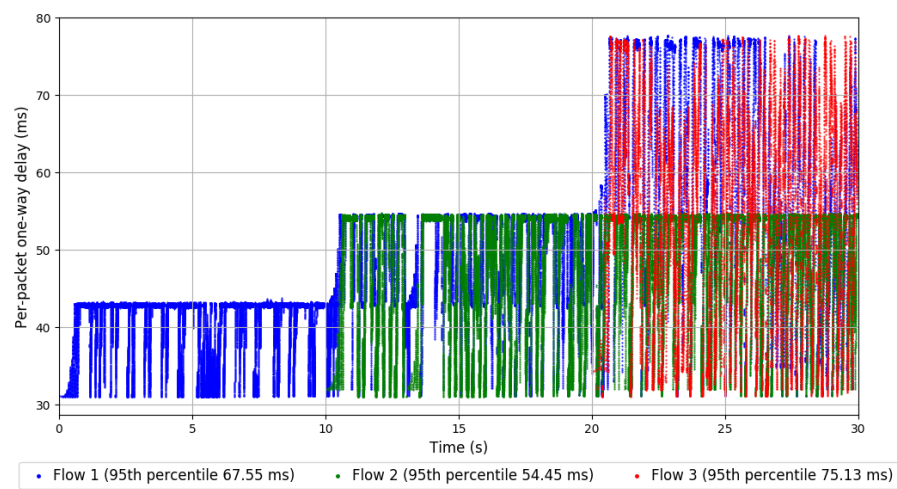
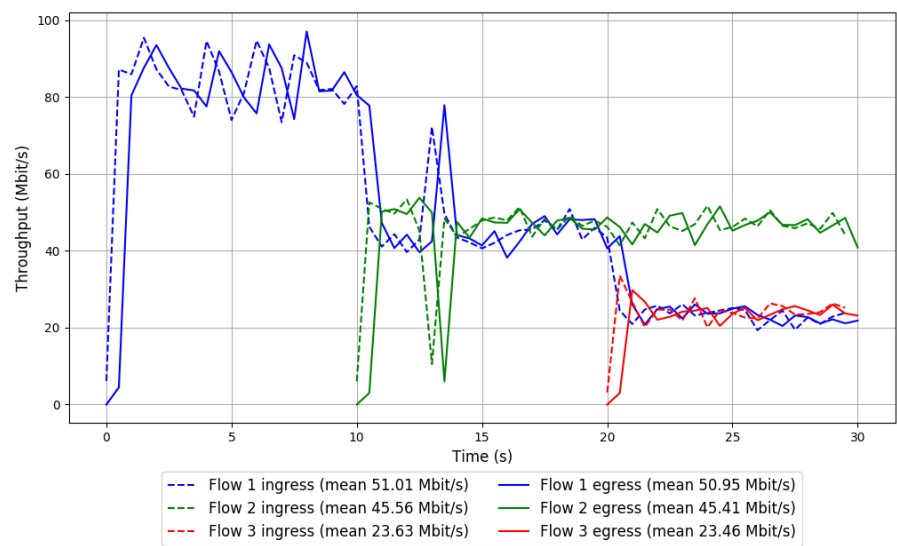
-- Flow 3:

Average throughput: 23.46 Mbit/s

95th percentile per-packet one-way delay: 75.134 ms

Loss rate: 1.40%

Run 6: Report of Verus — Data Link

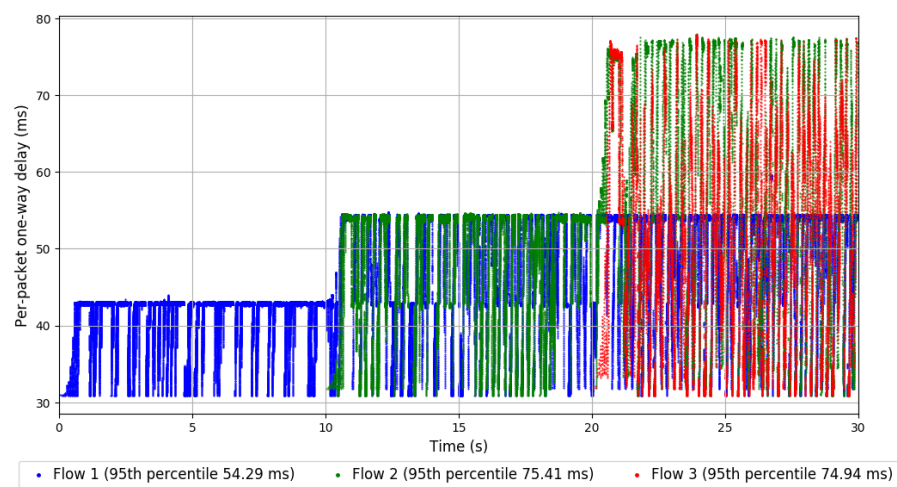
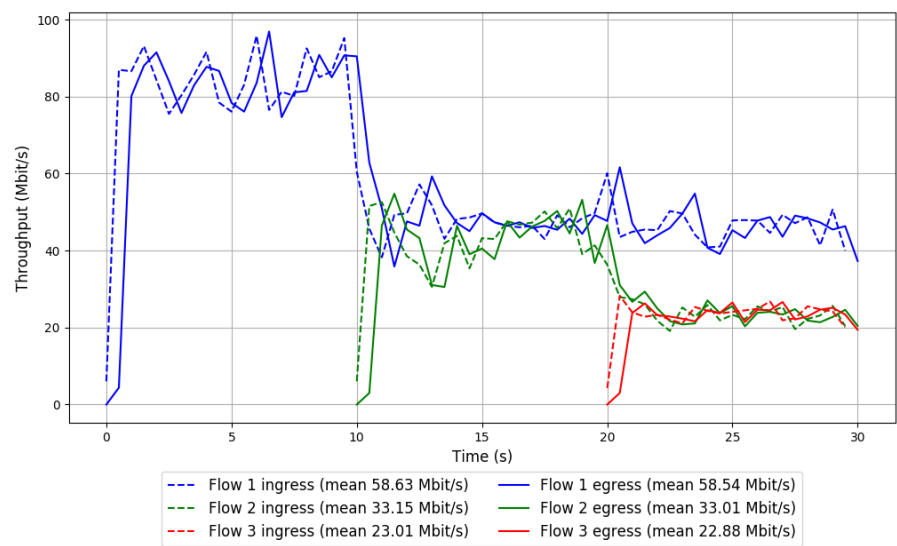


Run 7: Statistics of Verus

Start at: 2018-07-25 09:56:16
End at: 2018-07-25 09:56:46
Local clock offset: -0.385 ms
Remote clock offset: 2.457 ms

Below is generated by plot.py at 2018-07-25 11:46:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.06 Mbit/s
95th percentile per-packet one-way delay: 64.682 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 58.54 Mbit/s
95th percentile per-packet one-way delay: 54.291 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 33.01 Mbit/s
95th percentile per-packet one-way delay: 75.413 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 22.88 Mbit/s
95th percentile per-packet one-way delay: 74.942 ms
Loss rate: 1.18%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-25 10:19:07

End at: 2018-07-25 10:19:37

Local clock offset: -0.279 ms

Remote clock offset: 2.449 ms

Below is generated by plot.py at 2018-07-25 11:46:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.46 Mbit/s

95th percentile per-packet one-way delay: 68.063 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 50.20 Mbit/s

95th percentile per-packet one-way delay: 64.924 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 34.31 Mbit/s

95th percentile per-packet one-way delay: 75.423 ms

Loss rate: 0.65%

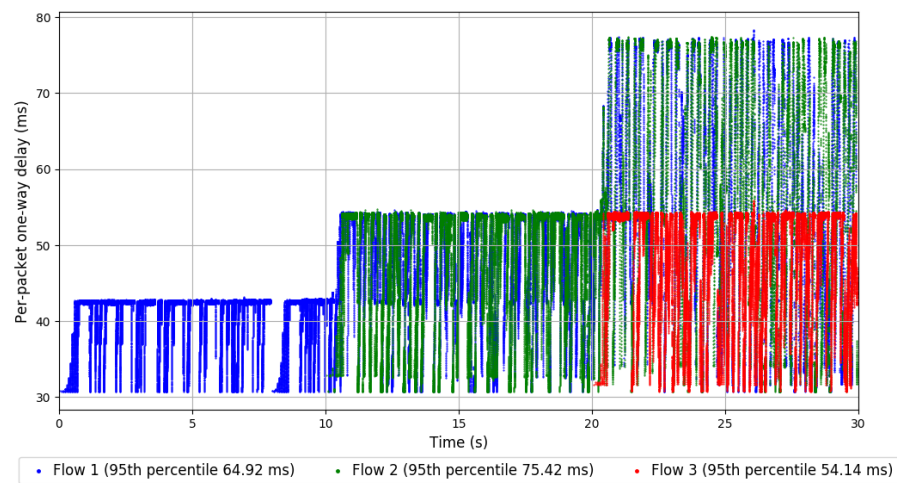
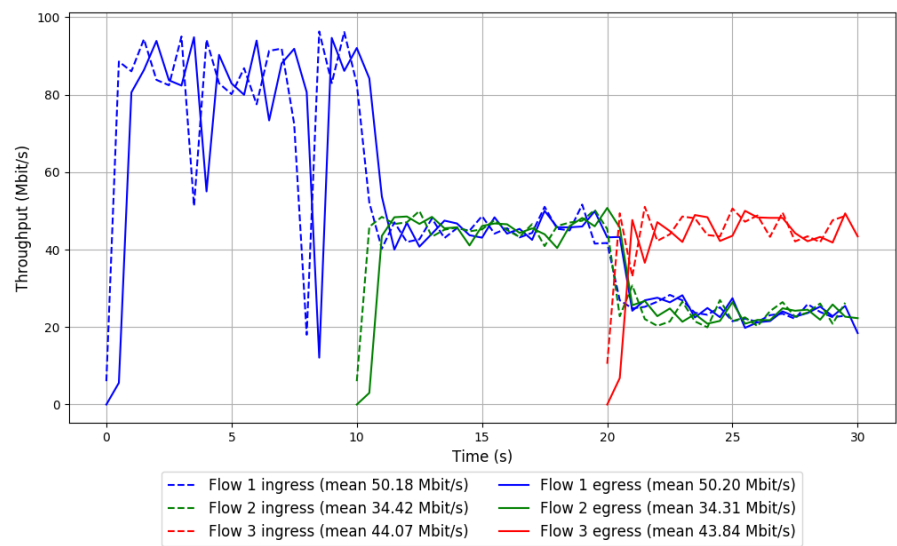
-- Flow 3:

Average throughput: 43.84 Mbit/s

95th percentile per-packet one-way delay: 54.141 ms

Loss rate: 1.17%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-25 10:41:56

End at: 2018-07-25 10:42:26

Local clock offset: -0.01 ms

Remote clock offset: 1.274 ms

Below is generated by plot.py at 2018-07-25 11:47:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.50 Mbit/s

95th percentile per-packet one-way delay: 70.362 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 50.49 Mbit/s

95th percentile per-packet one-way delay: 69.807 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 34.27 Mbit/s

95th percentile per-packet one-way delay: 75.917 ms

Loss rate: 0.43%

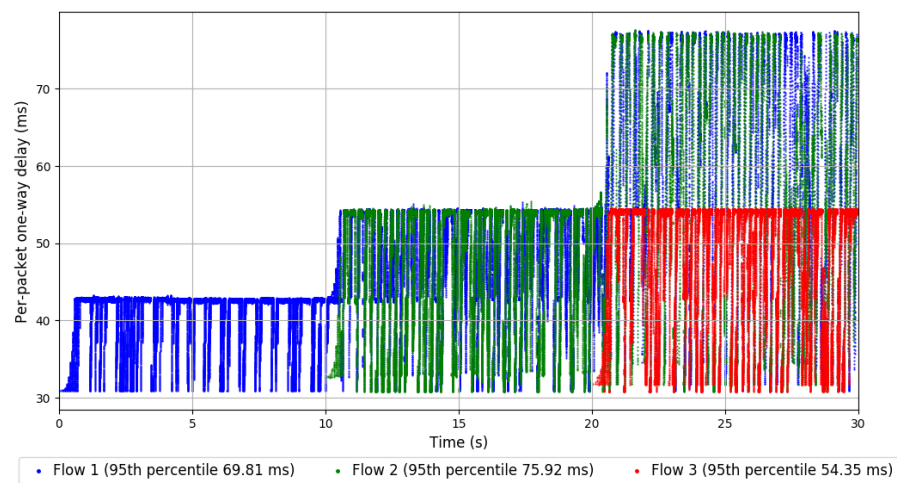
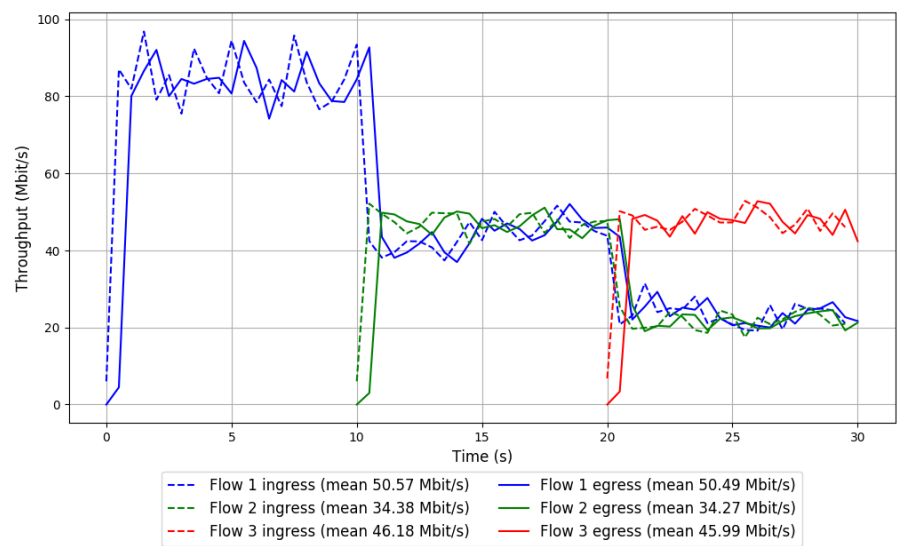
-- Flow 3:

Average throughput: 45.99 Mbit/s

95th percentile per-packet one-way delay: 54.348 ms

Loss rate: 1.14%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-25 11:04:46

End at: 2018-07-25 11:05:16

Local clock offset: 0.989 ms

Remote clock offset: 1.785 ms

Below is generated by plot.py at 2018-07-25 11:47:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.76 Mbit/s

95th percentile per-packet one-way delay: 68.694 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 51.36 Mbit/s

95th percentile per-packet one-way delay: 64.808 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 34.76 Mbit/s

95th percentile per-packet one-way delay: 75.922 ms

Loss rate: 0.45%

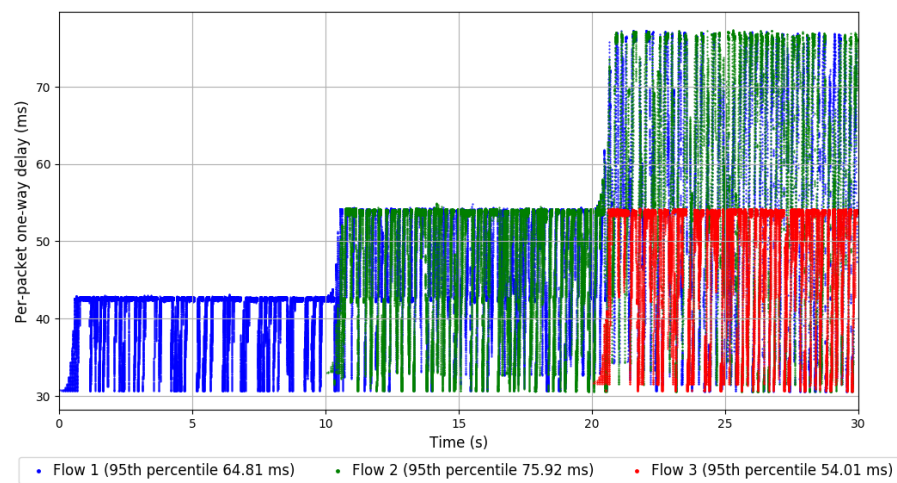
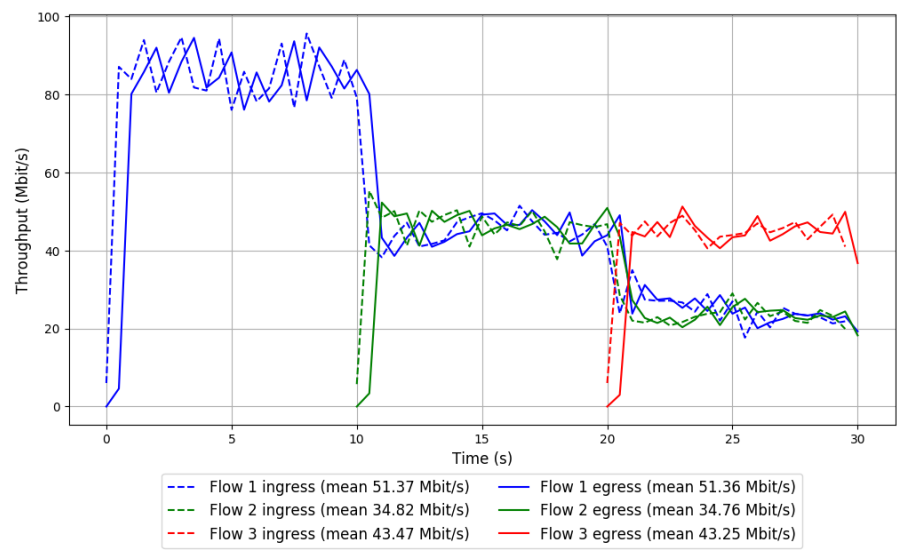
-- Flow 3:

Average throughput: 43.25 Mbit/s

95th percentile per-packet one-way delay: 54.010 ms

Loss rate: 1.17%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-25 07:35:45

End at: 2018-07-25 07:36:15

Local clock offset: 3.234 ms

Remote clock offset: 3.146 ms

Below is generated by plot.py at 2018-07-25 11:47:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.76 Mbit/s

95th percentile per-packet one-way delay: 61.166 ms

Loss rate: 2.20%

-- Flow 1:

Average throughput: 54.94 Mbit/s

95th percentile per-packet one-way delay: 56.462 ms

Loss rate: 2.82%

-- Flow 2:

Average throughput: 34.57 Mbit/s

95th percentile per-packet one-way delay: 62.638 ms

Loss rate: 1.13%

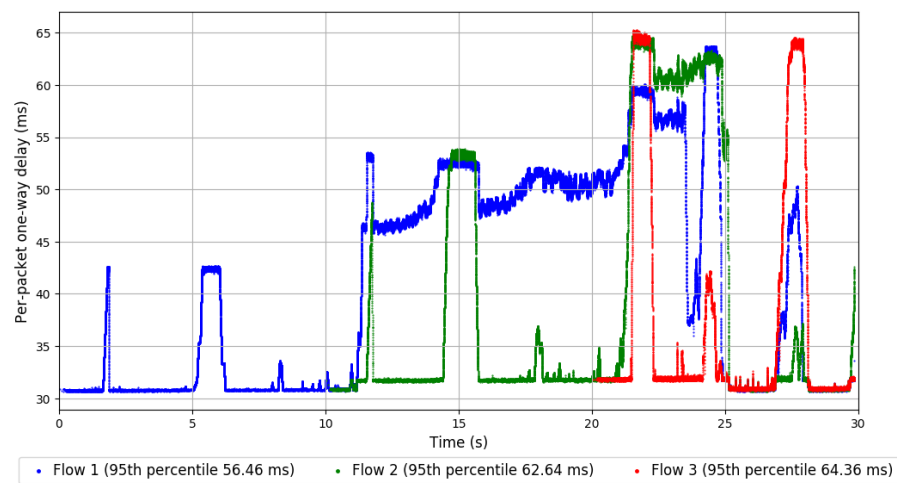
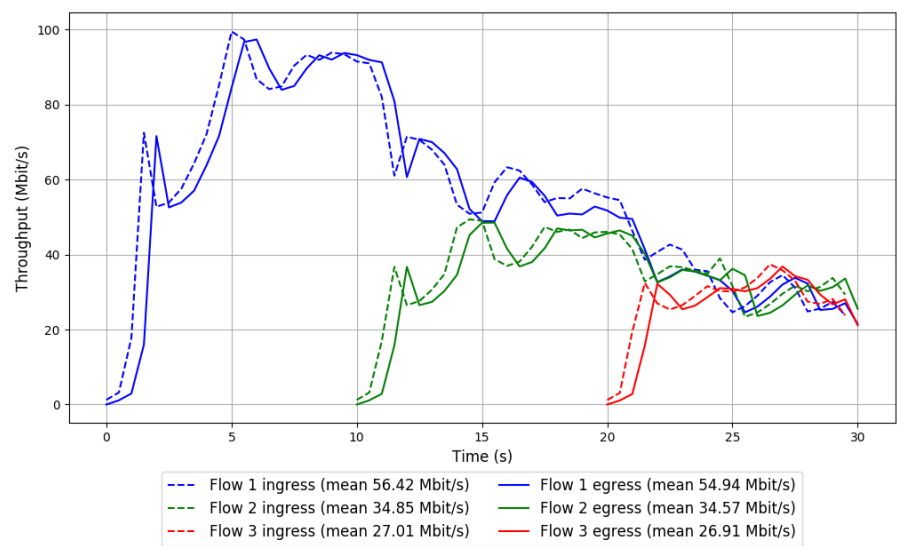
-- Flow 3:

Average throughput: 26.91 Mbit/s

95th percentile per-packet one-way delay: 64.364 ms

Loss rate: 1.05%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-25 07:58:44

End at: 2018-07-25 07:59:14

Local clock offset: 3.365 ms

Remote clock offset: 5.301 ms

Below is generated by plot.py at 2018-07-25 11:47:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.28 Mbit/s

95th percentile per-packet one-way delay: 68.656 ms

Loss rate: 2.23%

-- Flow 1:

Average throughput: 55.88 Mbit/s

95th percentile per-packet one-way delay: 50.780 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 35.20 Mbit/s

95th percentile per-packet one-way delay: 69.426 ms

Loss rate: 6.12%

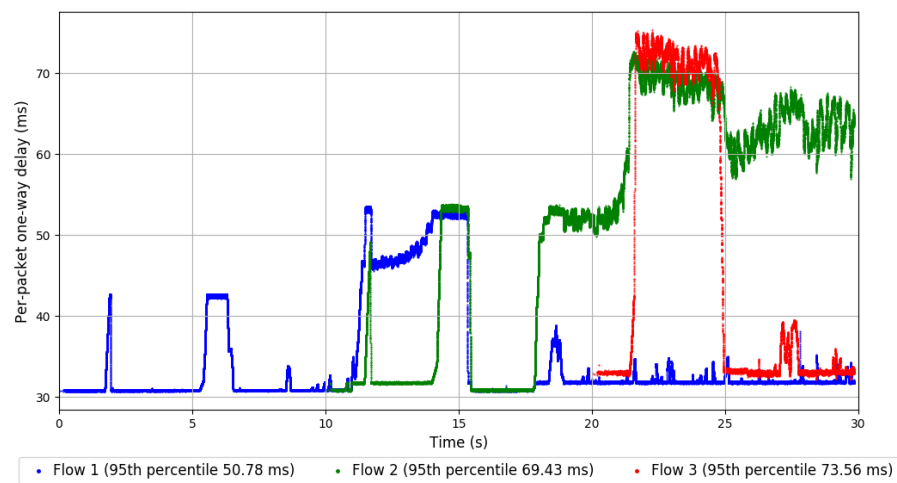
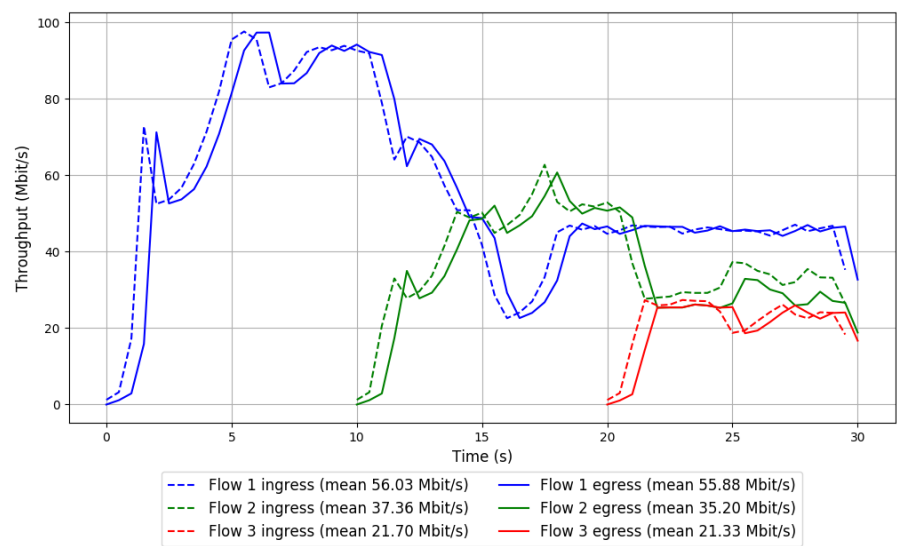
-- Flow 3:

Average throughput: 21.33 Mbit/s

95th percentile per-packet one-way delay: 73.555 ms

Loss rate: 2.37%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-25 08:21:39

End at: 2018-07-25 08:22:09

Local clock offset: 2.885 ms

Remote clock offset: 3.945 ms

Below is generated by plot.py at 2018-07-25 11:47:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.55 Mbit/s

95th percentile per-packet one-way delay: 58.547 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 56.41 Mbit/s

95th percentile per-packet one-way delay: 50.943 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 33.76 Mbit/s

95th percentile per-packet one-way delay: 61.397 ms

Loss rate: 1.94%

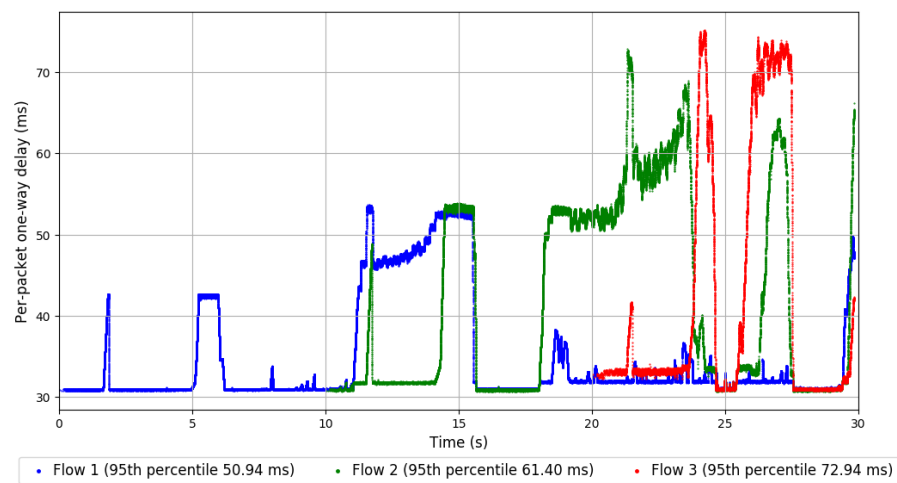
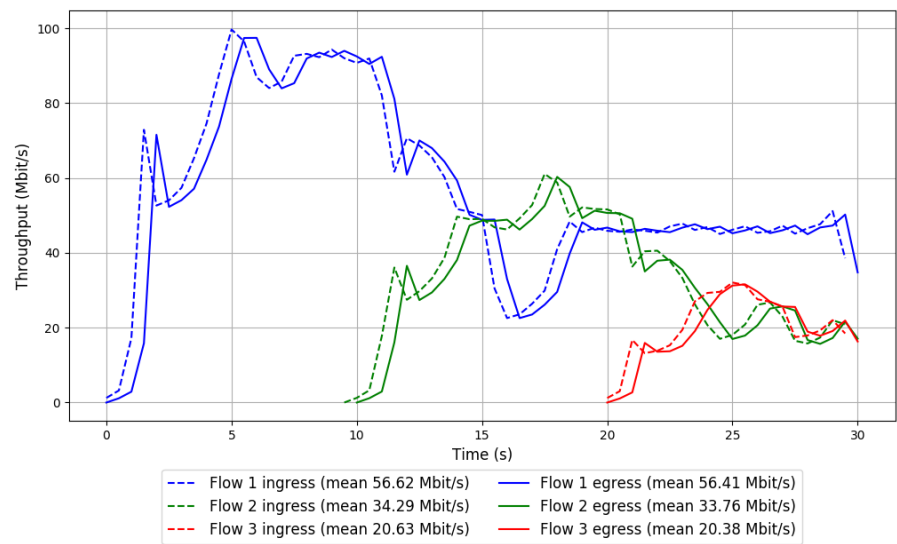
-- Flow 3:

Average throughput: 20.38 Mbit/s

95th percentile per-packet one-way delay: 72.944 ms

Loss rate: 1.89%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-25 08:44:44

End at: 2018-07-25 08:45:14

Local clock offset: 0.169 ms

Remote clock offset: 3.572 ms

Below is generated by plot.py at 2018-07-25 11:47:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.52 Mbit/s

95th percentile per-packet one-way delay: 56.475 ms

Loss rate: 2.95%

-- Flow 1:

Average throughput: 53.71 Mbit/s

95th percentile per-packet one-way delay: 60.932 ms

Loss rate: 4.42%

-- Flow 2:

Average throughput: 40.91 Mbit/s

95th percentile per-packet one-way delay: 50.766 ms

Loss rate: 0.44%

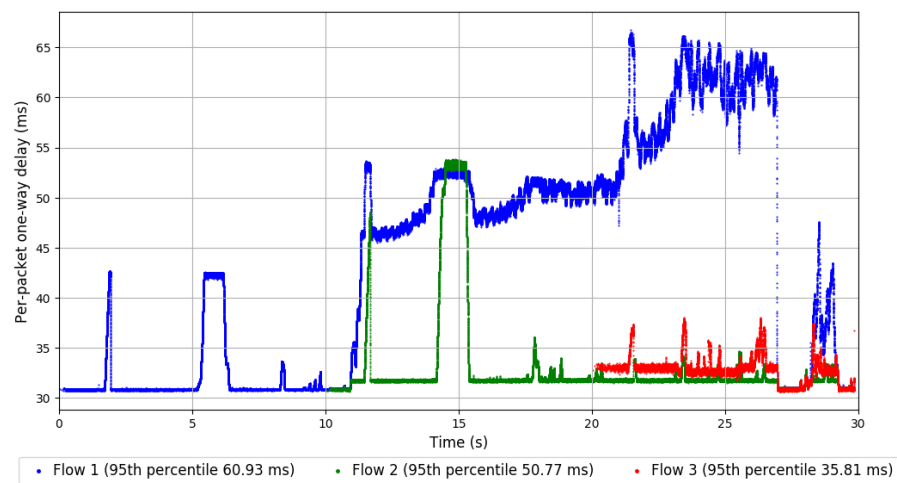
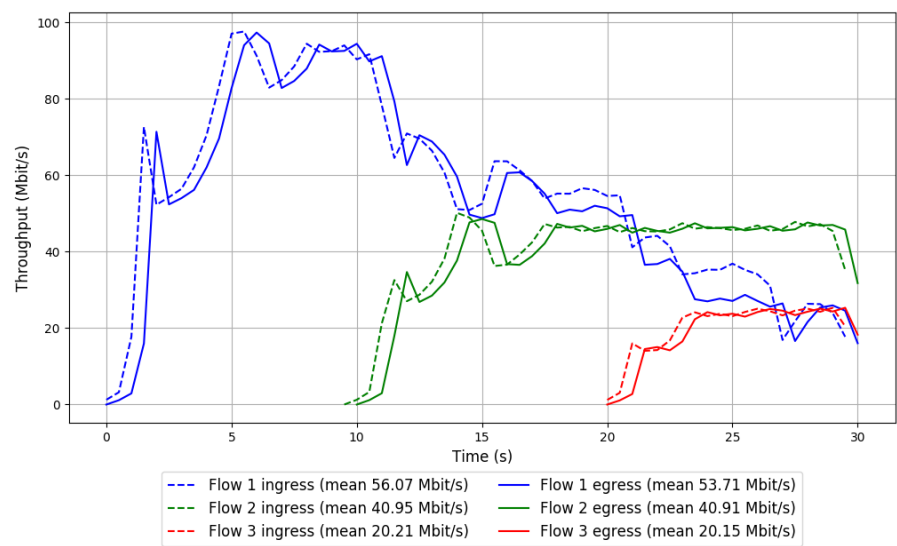
-- Flow 3:

Average throughput: 20.15 Mbit/s

95th percentile per-packet one-way delay: 35.810 ms

Loss rate: 0.95%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-25 09:07:42

End at: 2018-07-25 09:08:12

Local clock offset: 1.127 ms

Remote clock offset: 2.633 ms

Below is generated by plot.py at 2018-07-25 11:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.76 Mbit/s

95th percentile per-packet one-way delay: 56.124 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 55.99 Mbit/s

95th percentile per-packet one-way delay: 52.506 ms

Loss rate: 2.61%

-- Flow 2:

Average throughput: 34.23 Mbit/s

95th percentile per-packet one-way delay: 60.842 ms

Loss rate: 0.51%

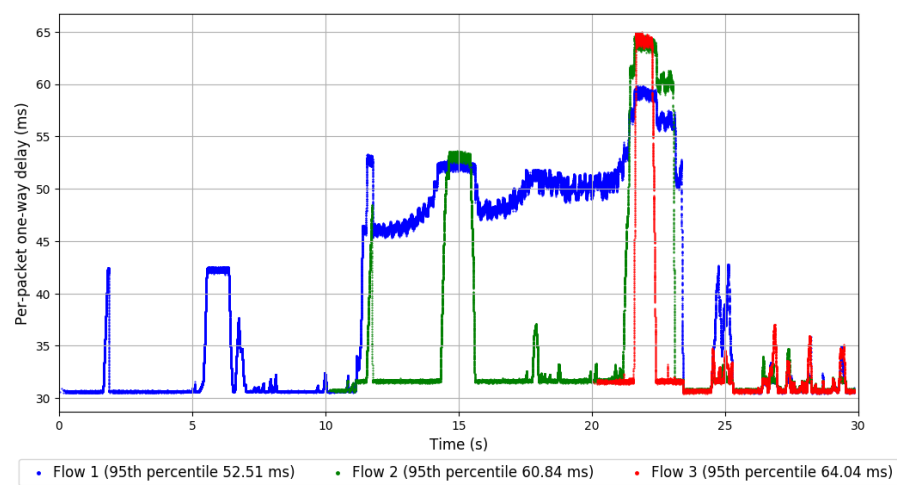
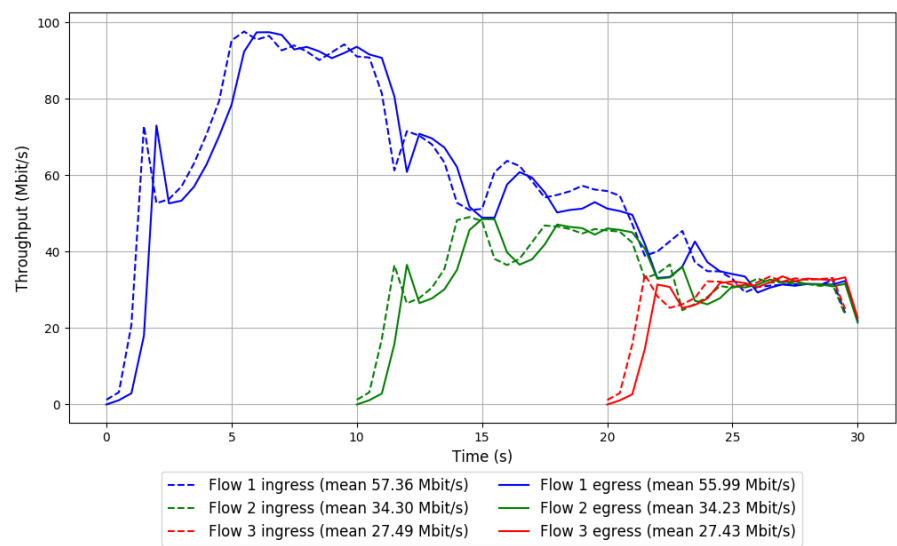
-- Flow 3:

Average throughput: 27.43 Mbit/s

95th percentile per-packet one-way delay: 64.043 ms

Loss rate: 0.87%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-25 09:30:40

End at: 2018-07-25 09:31:10

Local clock offset: 3.184 ms

Remote clock offset: 2.485 ms

Below is generated by plot.py at 2018-07-25 11:48:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.74 Mbit/s

95th percentile per-packet one-way delay: 60.361 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 54.65 Mbit/s

95th percentile per-packet one-way delay: 52.738 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 34.23 Mbit/s

95th percentile per-packet one-way delay: 60.319 ms

Loss rate: 0.57%

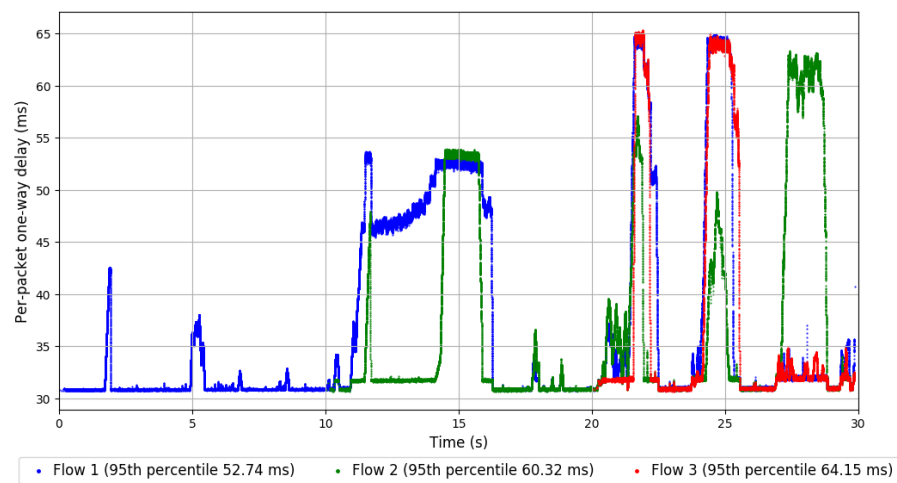
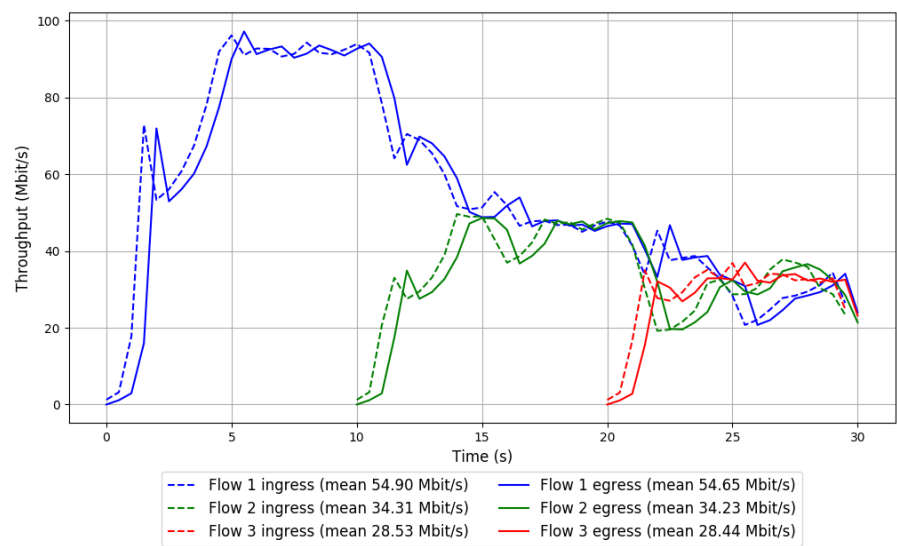
-- Flow 3:

Average throughput: 28.44 Mbit/s

95th percentile per-packet one-way delay: 64.148 ms

Loss rate: 0.96%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-25 09:53:33

End at: 2018-07-25 09:54:03

Local clock offset: -0.335 ms

Remote clock offset: 2.542 ms

Below is generated by plot.py at 2018-07-25 11:48:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.71 Mbit/s

95th percentile per-packet one-way delay: 63.227 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 54.38 Mbit/s

95th percentile per-packet one-way delay: 63.786 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 40.79 Mbit/s

95th percentile per-packet one-way delay: 53.186 ms

Loss rate: 0.56%

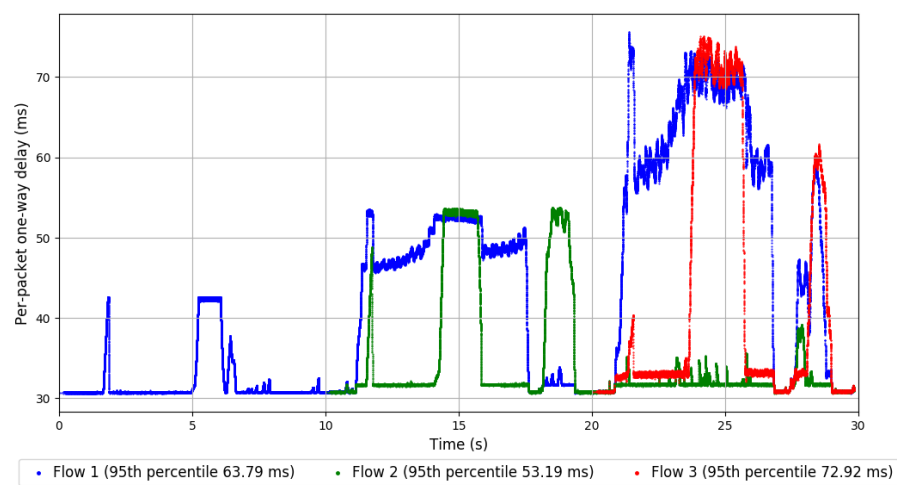
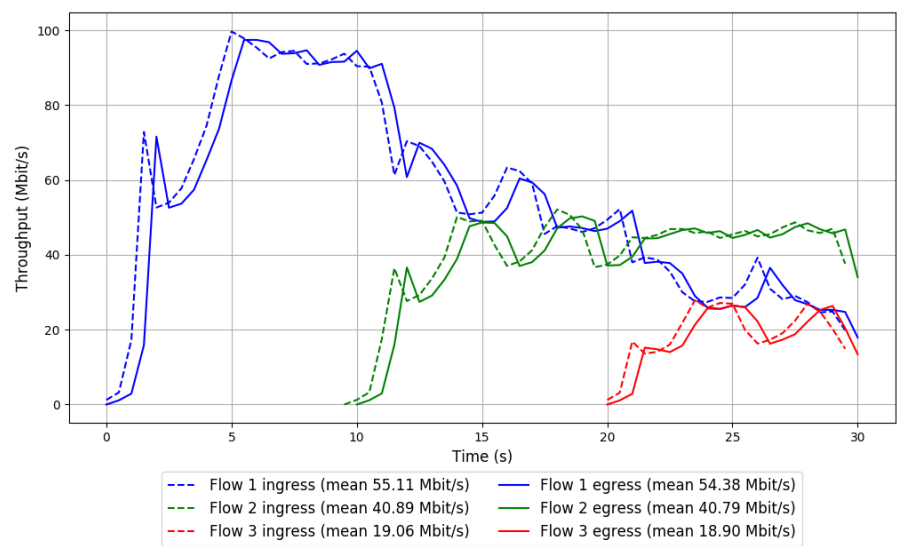
-- Flow 3:

Average throughput: 18.90 Mbit/s

95th percentile per-packet one-way delay: 72.924 ms

Loss rate: 1.51%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-25 10:16:26

End at: 2018-07-25 10:16:56

Local clock offset: -0.172 ms

Remote clock offset: 2.412 ms

Below is generated by plot.py at 2018-07-25 11:48:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.76 Mbit/s

95th percentile per-packet one-way delay: 68.304 ms

Loss rate: 4.83%

-- Flow 1:

Average throughput: 59.97 Mbit/s

95th percentile per-packet one-way delay: 51.697 ms

Loss rate: 5.60%

-- Flow 2:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 71.699 ms

Loss rate: 3.75%

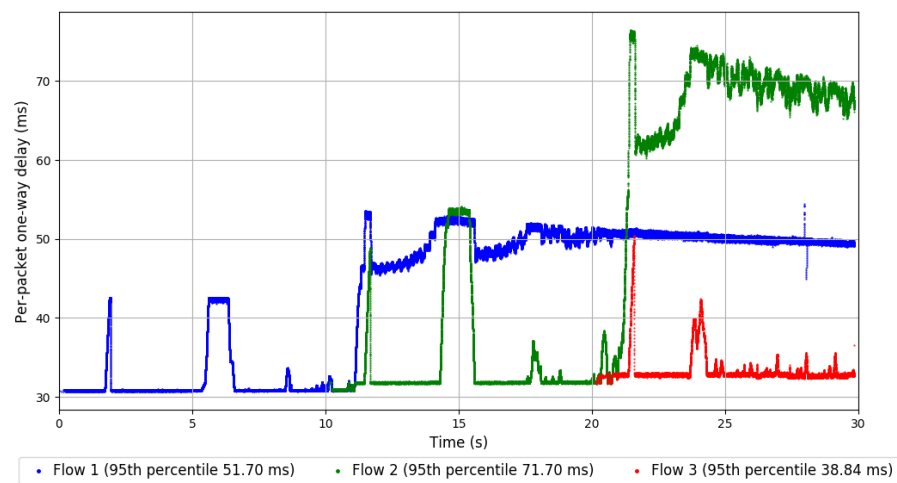
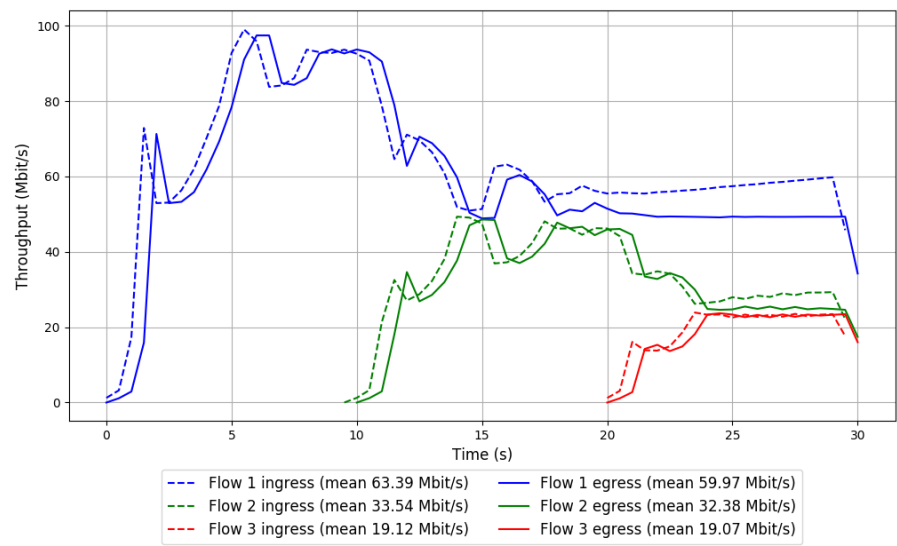
-- Flow 3:

Average throughput: 19.07 Mbit/s

95th percentile per-packet one-way delay: 38.840 ms

Loss rate: 0.87%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-25 10:39:14

End at: 2018-07-25 10:39:44

Local clock offset: -0.038 ms

Remote clock offset: 1.338 ms

Below is generated by plot.py at 2018-07-25 11:48:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 64.535 ms

Loss rate: 4.00%

-- Flow 1:

Average throughput: 53.64 Mbit/s

95th percentile per-packet one-way delay: 60.079 ms

Loss rate: 4.75%

-- Flow 2:

Average throughput: 33.90 Mbit/s

95th percentile per-packet one-way delay: 71.131 ms

Loss rate: 3.69%

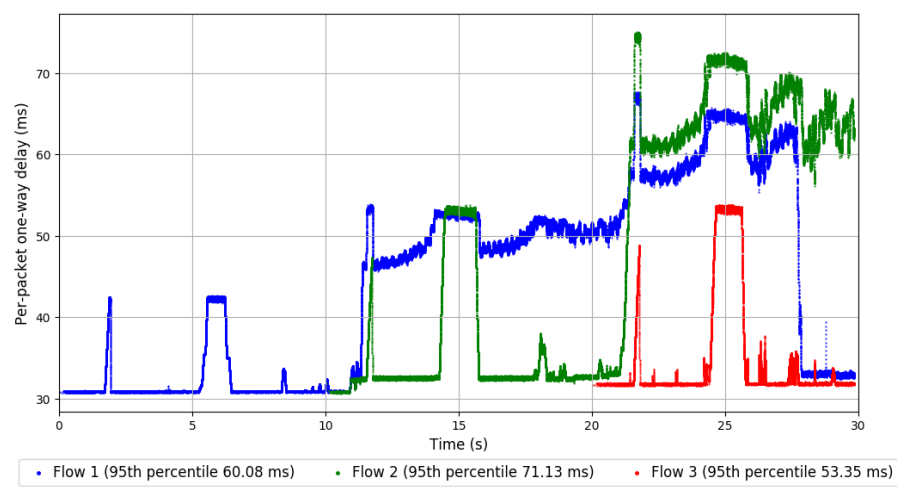
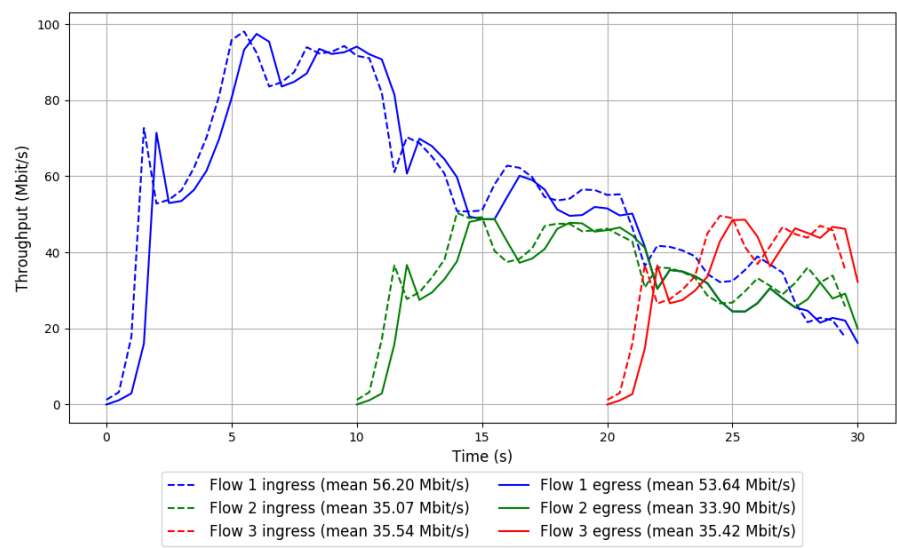
-- Flow 3:

Average throughput: 35.42 Mbit/s

95th percentile per-packet one-way delay: 53.350 ms

Loss rate: 1.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-25 11:02:04

End at: 2018-07-25 11:02:34

Local clock offset: 0.07 ms

Remote clock offset: 1.621 ms

Below is generated by plot.py at 2018-07-25 11:48:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.29 Mbit/s

95th percentile per-packet one-way delay: 56.567 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 54.04 Mbit/s

95th percentile per-packet one-way delay: 46.324 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 36.21 Mbit/s

95th percentile per-packet one-way delay: 61.387 ms

Loss rate: 1.06%

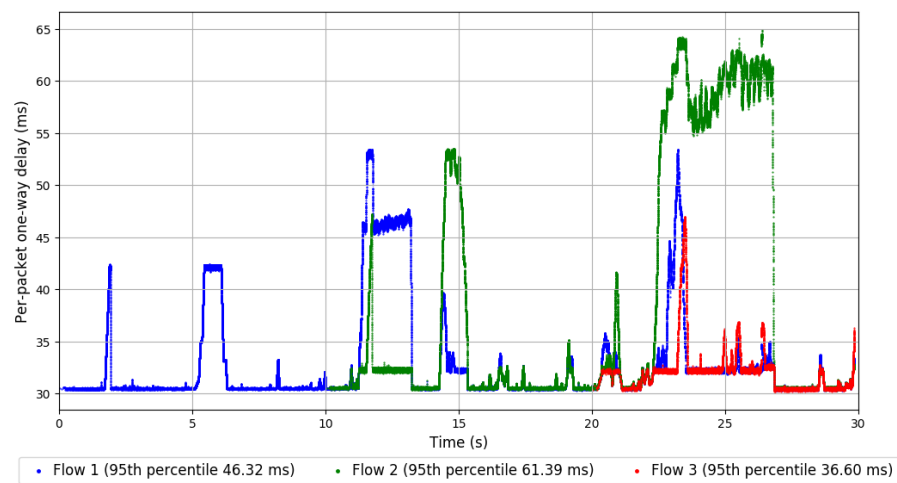
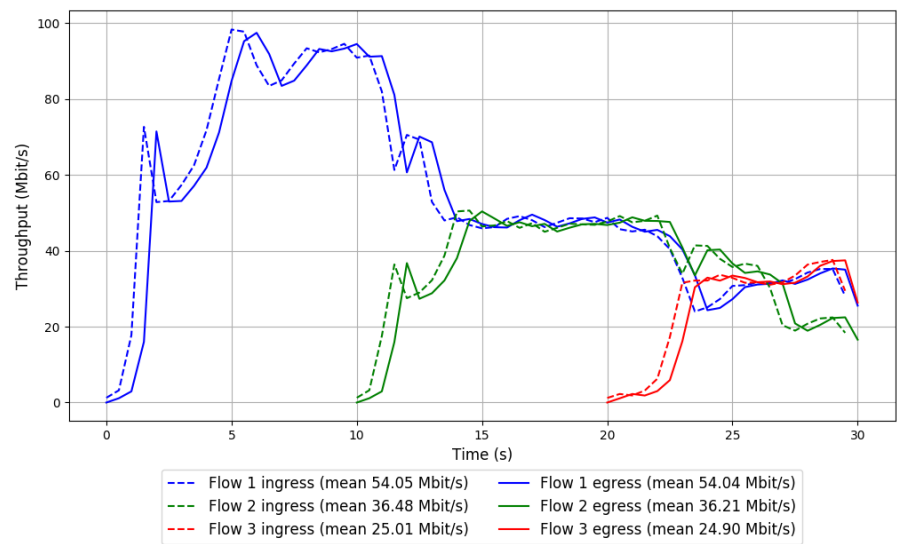
-- Flow 3:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 36.604 ms

Loss rate: 1.12%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-25 07:33:04

End at: 2018-07-25 07:33:34

Local clock offset: 3.145 ms

Remote clock offset: 3.128 ms

Below is generated by plot.py at 2018-07-25 11:48:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.28 Mbit/s

95th percentile per-packet one-way delay: 31.539 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 31.489 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 31.577 ms

Loss rate: 0.32%

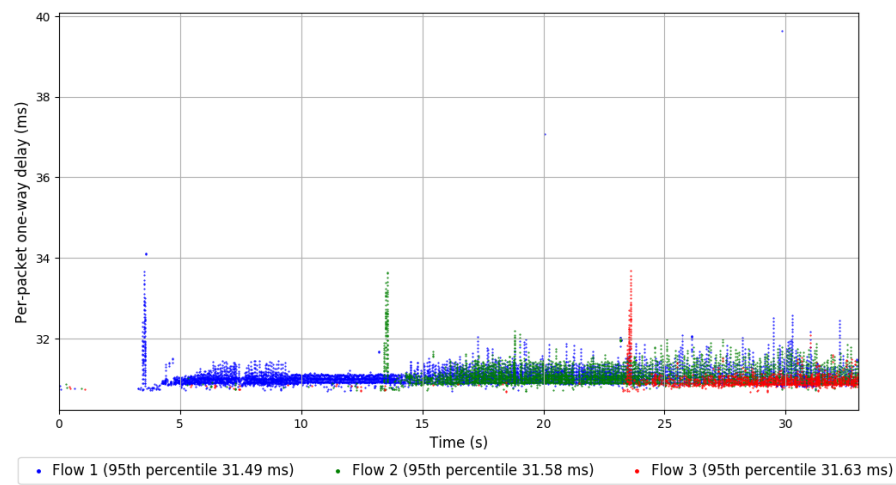
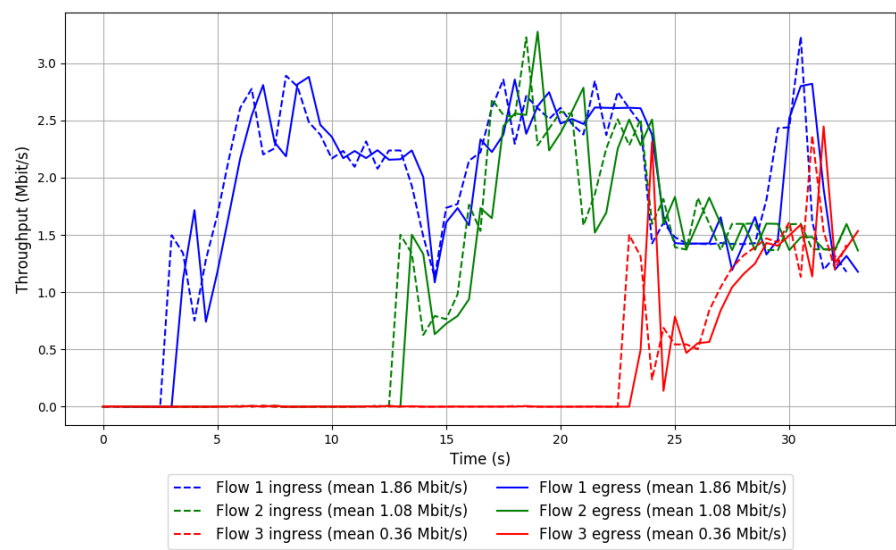
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 31.630 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-25 07:56:05

End at: 2018-07-25 07:56:35

Local clock offset: 3.377 ms

Remote clock offset: 4.911 ms

Below is generated by plot.py at 2018-07-25 11:48:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 31.652 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 31.516 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 31.712 ms

Loss rate: 0.33%

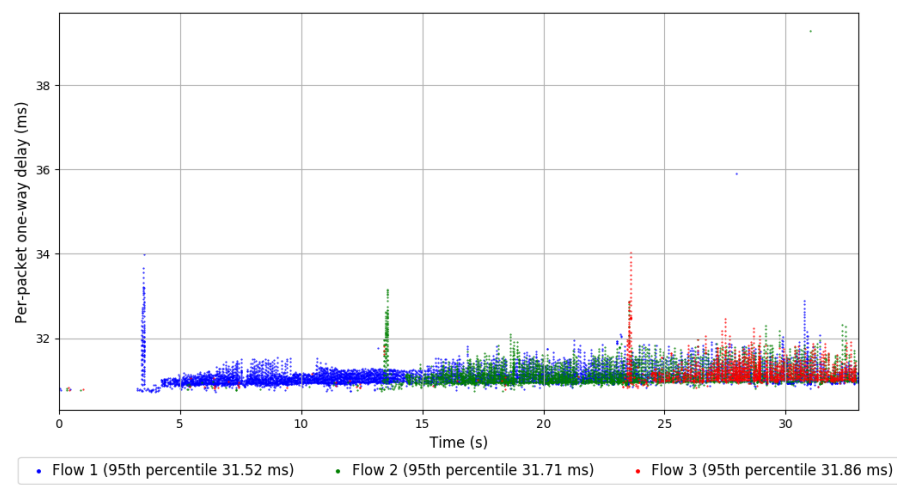
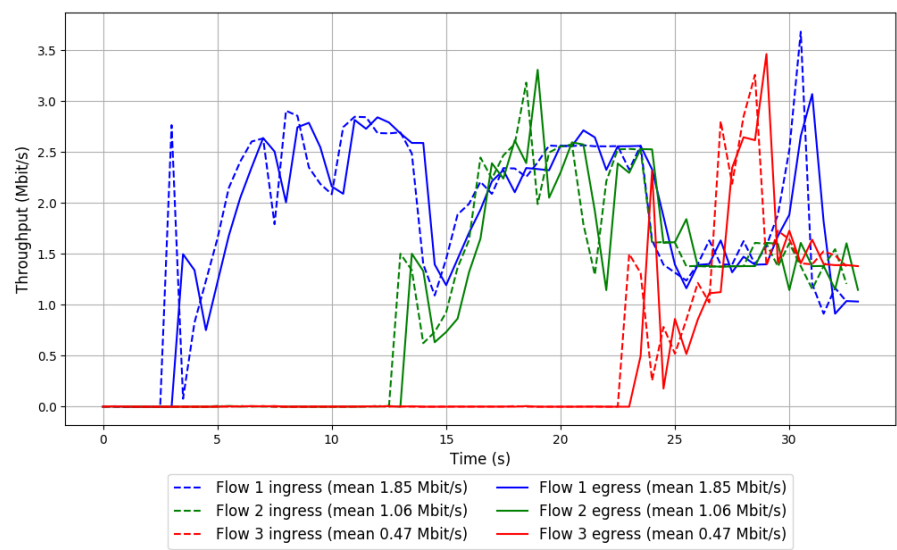
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 31.862 ms

Loss rate: 0.75%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-25 08:19:00

End at: 2018-07-25 08:19:30

Local clock offset: 2.941 ms

Remote clock offset: 3.954 ms

Below is generated by plot.py at 2018-07-25 11:48:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 31.501 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 31.443 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 31.538 ms

Loss rate: 0.33%

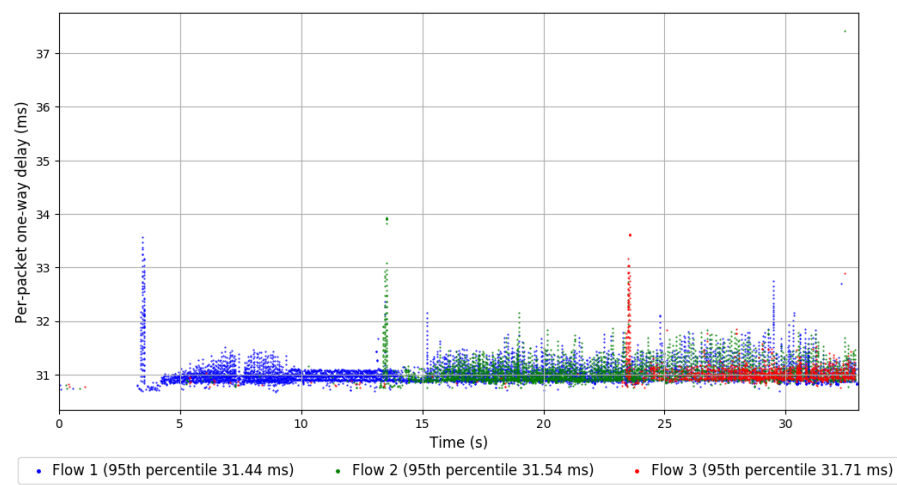
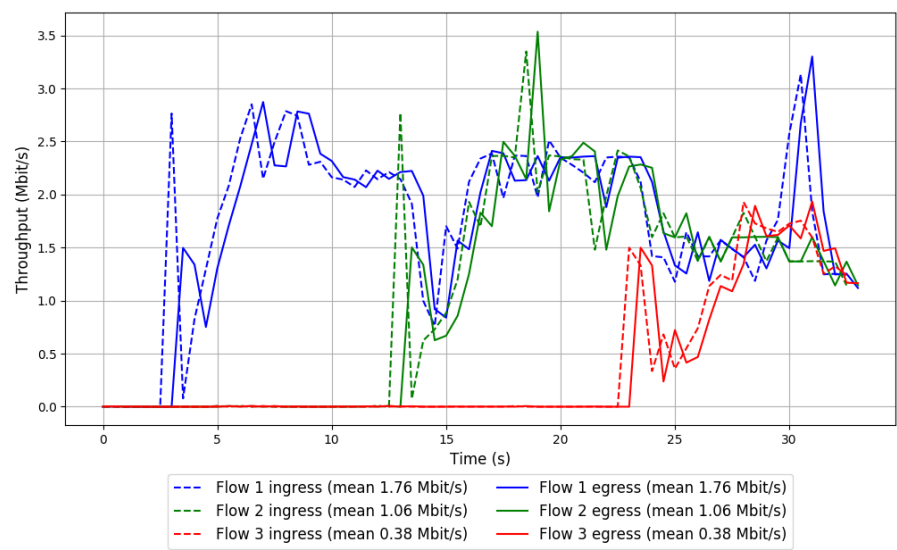
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 31.709 ms

Loss rate: 0.93%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-25 08:42:04

End at: 2018-07-25 08:42:34

Local clock offset: 0.523 ms

Remote clock offset: 4.153 ms

Below is generated by plot.py at 2018-07-25 11:48:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 31.514 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 31.451 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 31.513 ms

Loss rate: 0.34%

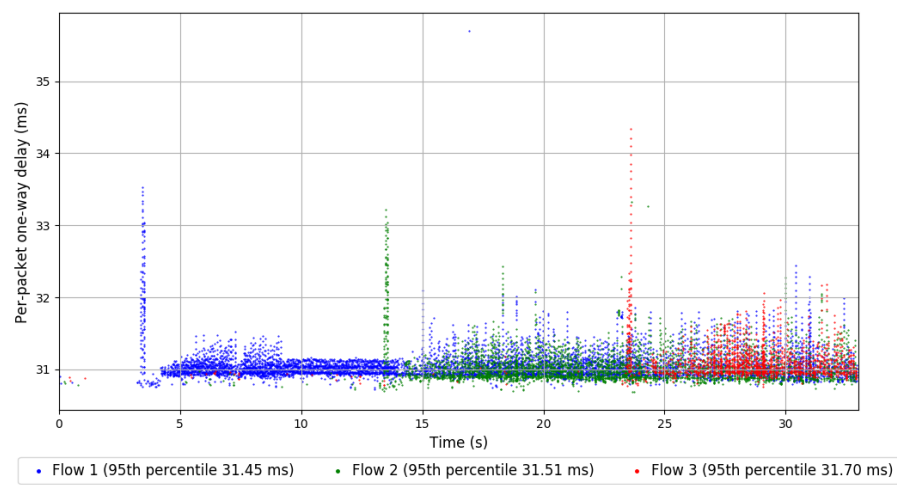
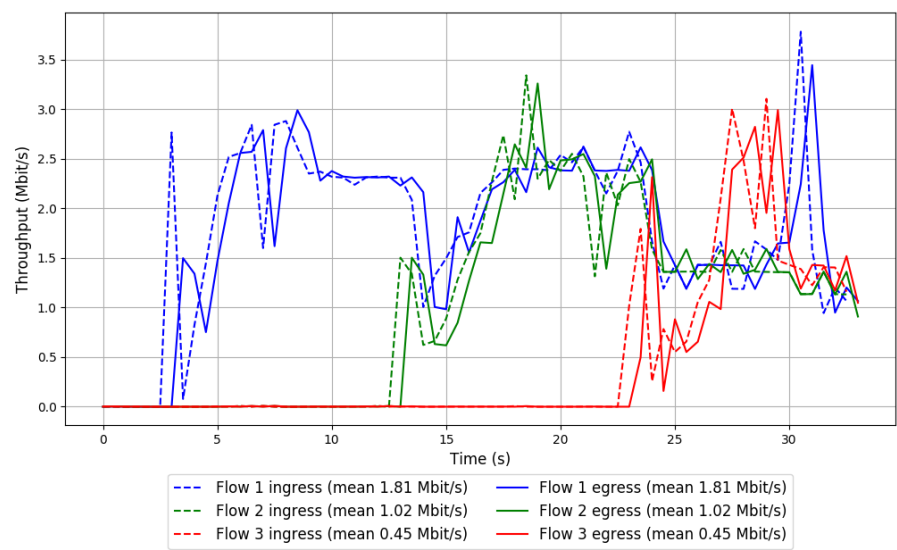
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 31.703 ms

Loss rate: 0.79%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-25 09:05:03

End at: 2018-07-25 09:05:33

Local clock offset: 0.318 ms

Remote clock offset: 2.626 ms

Below is generated by plot.py at 2018-07-25 11:48:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.22 Mbit/s

95th percentile per-packet one-way delay: 31.159 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 31.142 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 31.165 ms

Loss rate: 0.33%

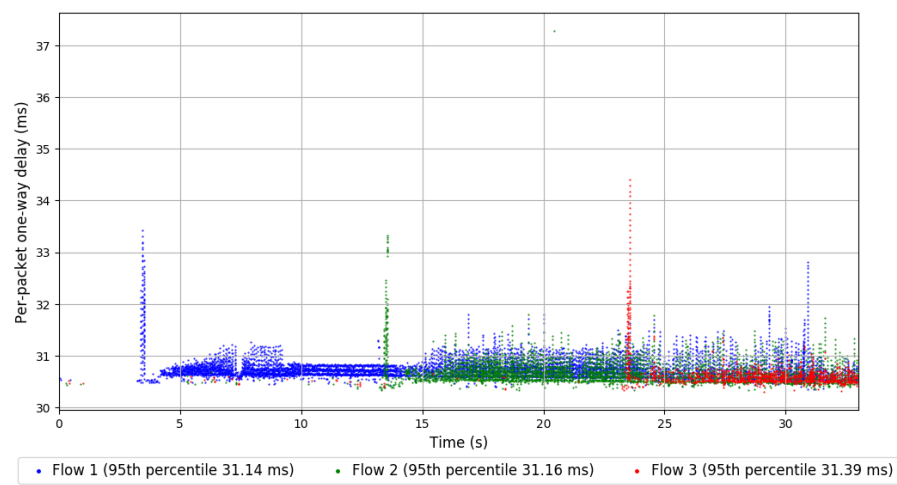
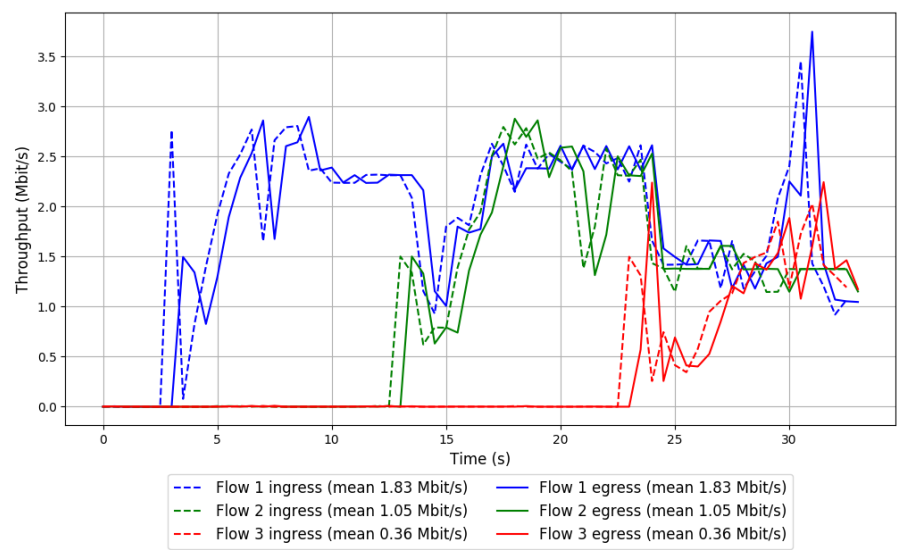
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 31.386 ms

Loss rate: 0.08%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-25 09:28:00

End at: 2018-07-25 09:28:30

Local clock offset: 3.027 ms

Remote clock offset: 2.46 ms

Below is generated by plot.py at 2018-07-25 11:48:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 31.501 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 31.458 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 31.417 ms

Loss rate: 0.00%

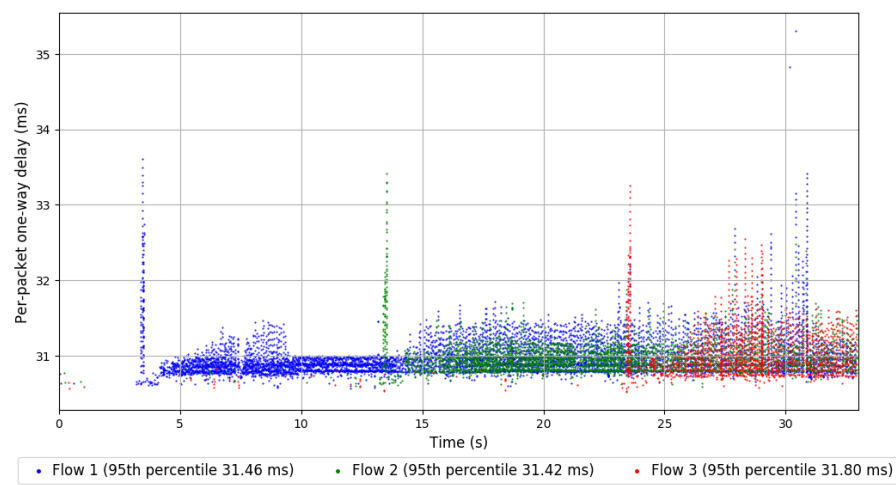
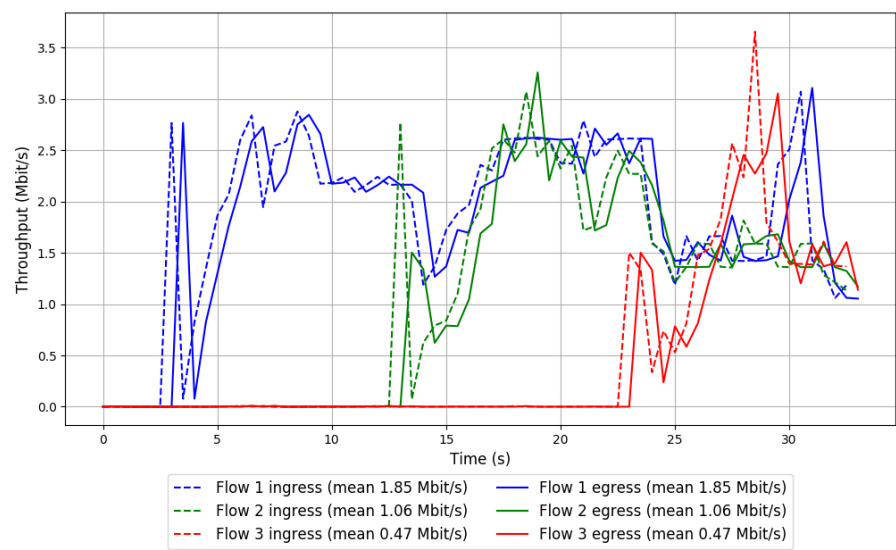
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 31.804 ms

Loss rate: 0.74%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-25 09:50:54

End at: 2018-07-25 09:51:24

Local clock offset: -0.084 ms

Remote clock offset: 2.651 ms

Below is generated by plot.py at 2018-07-25 11:48:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 31.707 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 31.654 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 31.631 ms

Loss rate: 0.32%

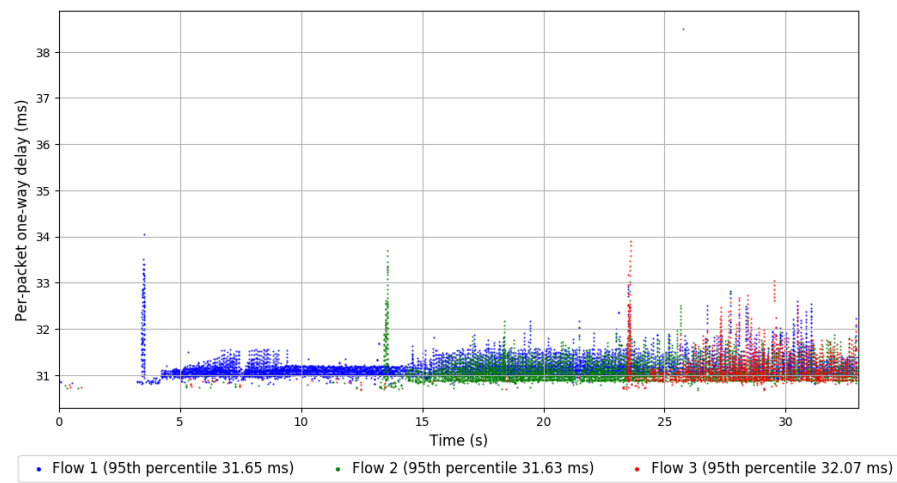
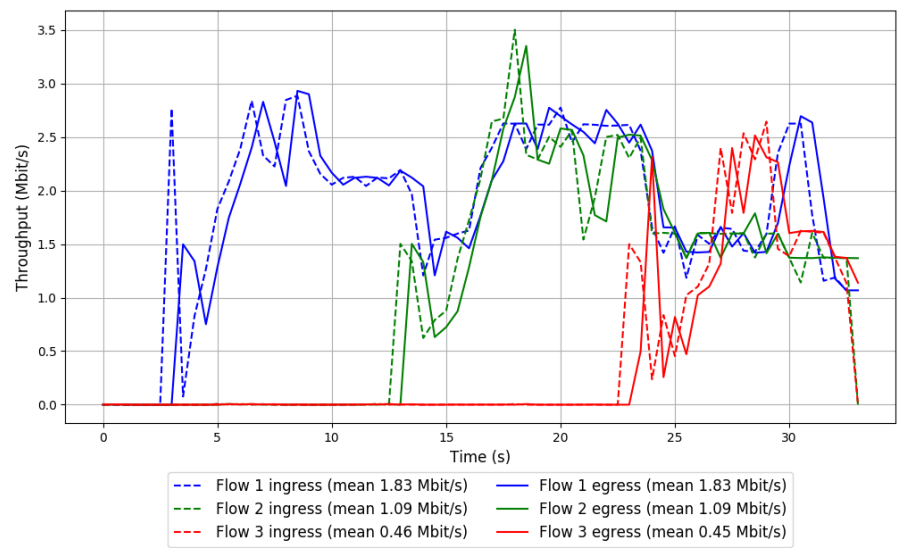
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 32.073 ms

Loss rate: 0.77%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-25 10:13:47

End at: 2018-07-25 10:14:17

Local clock offset: -0.17 ms

Remote clock offset: 2.388 ms

Below is generated by plot.py at 2018-07-25 11:48:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 31.628 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 31.467 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 31.674 ms

Loss rate: 0.32%

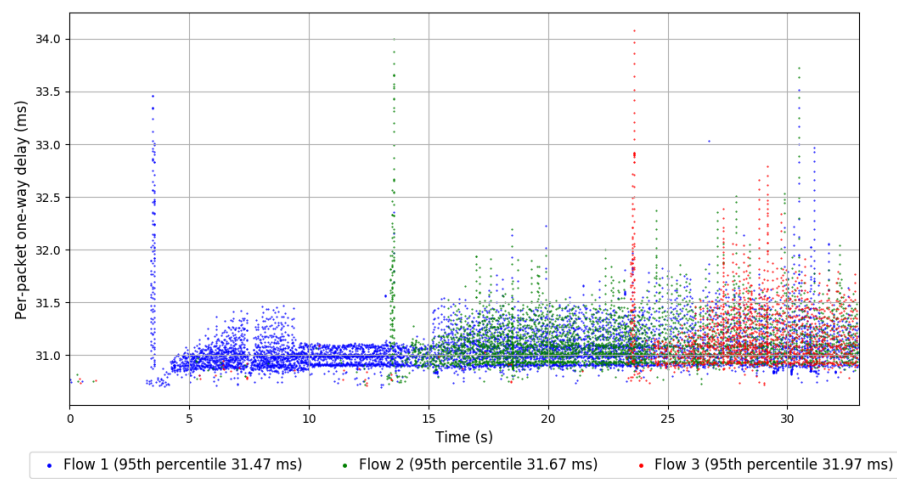
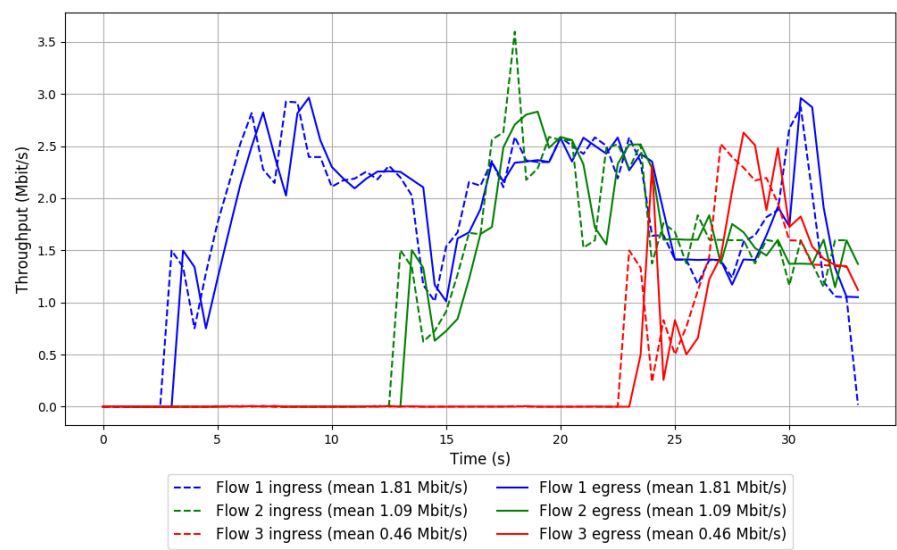
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 31.971 ms

Loss rate: 0.75%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-25 10:36:35

End at: 2018-07-25 10:37:05

Local clock offset: -0.123 ms

Remote clock offset: 1.385 ms

Below is generated by plot.py at 2018-07-25 11:48:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 31.604 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 31.553 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 31.556 ms

Loss rate: 0.32%

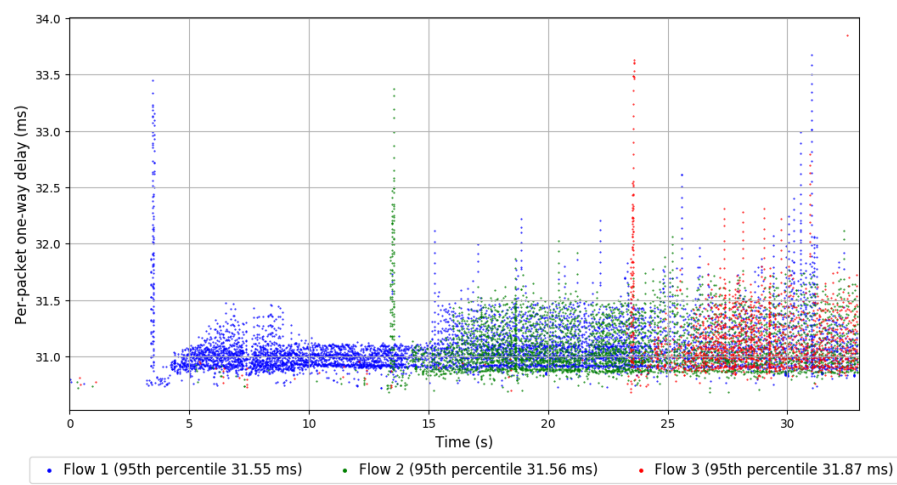
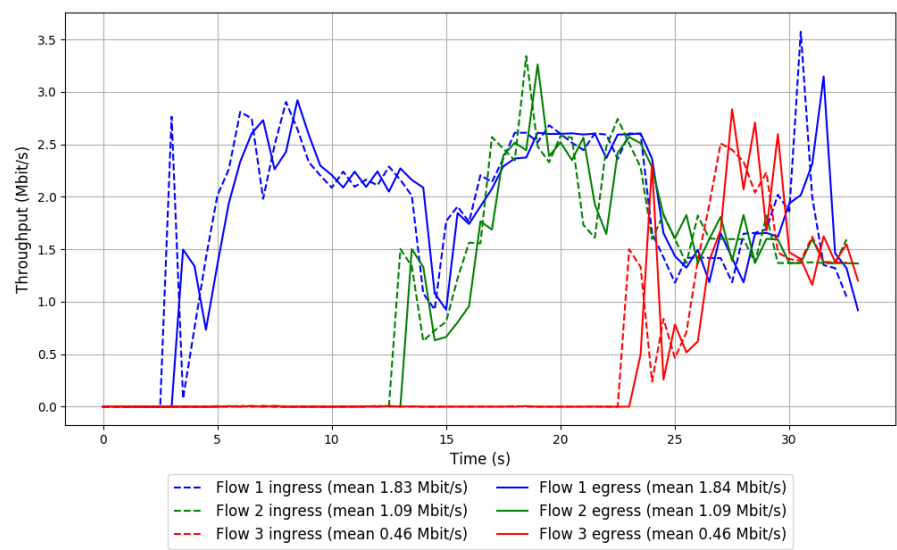
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 31.870 ms

Loss rate: 0.76%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-25 10:59:26

End at: 2018-07-25 10:59:56

Local clock offset: 0.007 ms

Remote clock offset: 1.42 ms

Below is generated by plot.py at 2018-07-25 11:48:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 31.623 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 31.526 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 31.647 ms

Loss rate: 0.05%

-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 31.924 ms

Loss rate: 0.69%

Run 10: Report of WebRTC media — Data Link

